

IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF DELAWARE

ICU MEDICAL, INC.,)	
)	
Plaintiff,)	
)	
v.)	C.A. No. 07-468-JJF
)	
RYMED TECHNOLOGIES, INC.,)	
)	
Defendant.)	JURY TRIAL DEMANDED
)	

**DECLARATION OF KATHERINE NOLAN-STEVAUX IN SUPPORT OF ICU'S
OPPOSITION TO RYMED'S MOTION TO TRANSFER VENUE**

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Attorneys for Plaintiff ICU Medical, Inc.

Dated: October 29, 2007
828257 / 32116

IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF DELAWARE

ICU MEDICAL, INC., }
Plaintiff, }
v. } Civil Action No. 07-468-JJF
RYMED TECHNOLOGIES, INC., }
Defendant. }

**DECLARATION OF KATHERINE NOLAN-STEVAUX IN SUPPORT OF ICU'S
OPPOSITION TO RYMED'S MOTION TO TRANSFER VENUE**

I, Katherine Nolan-Stevaux, declare and state as follows:

I am attorney in the law firm of Morrison & Foerster LLP, counsel of record for Plaintiff ICU Medical, Inc. ("ICU") in the above-referenced matter. I have personal knowledge of all the facts contained herein and, if called to testify, could and would competently testify thereto.

1. I am informed that on October 24, 2007 ICU filed a Notice of Appeal from the final judgment in the *ICU Medical v. Alaris Medical Systems* litigation in the Central District of California.

2. On September 21, 2007, Judge Mariana R. Pfaelzer, of the Central District of California, entered final judgment in *ICU Medical, Inc. v. Alaris Medical Systems, Inc.*, Case No. 8:04-cv-00689. On October 19, 2007, Judge Pfaelzer issued two orders in *Medegen MMS, Inc. v. ICU Medical, Inc.*, Case No. 06-619 case. The first order dismissed ICU's

counterclaims without prejudice. The second order was a final judgment that ICU's CLC2000 did not infringe any claim of Medegen's asserted patent. Attached hereto as Exhibits A and B are Judge Pfaelzer's Orders dated October 19, 2007.

3. To the best of my knowledge, Dave Arnold has never testified in any intellectual property litigation involving ICU. In contrast, ICU's lead patent attorney at Knobbe Martens Olson & Bear LLP has been deposed multiple times and was prepared to testify at trial in the Northern District of California in the *ICU Medical, Inc. v. B. Braun* litigation (C-01-320. I know of no reason why any of ICU's patent attorneys who may be properly called as witnesses in this case cannot testify either by deposition or if necessary at trial.

4. Dr. George A. Lopez is the inventor of the patents-in-suit and is currently the Chairman of the Board of ICU, as well as its President and Chief Executive Officer. He is prepared to appear to testify in this action by deposition or at trial if necessary.

5. The following counties are included within the Northern District of California federal judicial district: Alameda, Contra Costa, Del Norte, Humboldt, Lake, Marin, Mendocino, Monterey, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz, and Sonoma.

6. The following counties are included with the Eastern District of California federal judicial district: Alpine, Amador, Butte, Calaveras, Colusa, El Dorado, Fresno, Glenn, Inyo, Kern, Kings, Lassen, Madera, Mariposa, Merced, Modoc, Mono, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Sierra, Siskiyou, Solano, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, and Yuba.

7. The following counties are included within the Central District of California federal judicial district: Los Angeles, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, and Ventura.

8. Modesto is in Stanislaus County in the Eastern District; San Jose is in Santa Clara County in the Northern District; Burlingame is in San Mateo County in the Northern District; San Francisco is in San Francisco County in the Northern District; Paradise is in Butte County in the Eastern District, and Roseville is in Placer County in the Eastern District.

9. Attached hereto as Exhibit C is a true and correct copy of RyMed's contact information as listed on its website at <http://www.rymedtech.com/html/contact.htm>.

10. Attached hereto as Exhibit D are true and correct copies of Google Map directions from Franklin, Tennessee to Wilmington, Delaware and to Los Angeles, California.

11. Attached hereto as Exhibit E is a true and correct copy of Judge Breyer's November 8, 2004 Claim Construction order in *ICU Medical Inc. v. B. Braun Medical, Inc.*, Case No. 01-3202, construing terms of U.S. Patent No. 6,669,673.

12. Attached hereto as Exhibit F is a true and correct copy of Judge Breyer's March 14, 2005 Order granting in part ICU's motion for summary judgment of infringement in *ICU Medical Inc. v. B. Braun Medical, Inc.*, Case No. 01-3202.

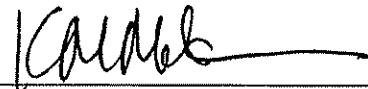
13. Attached hereto as Exhibit G is a true and correct copy of excerpts from the LegalMetric District Judge Report for the Central District of California, covering Patent cases from January, 1991 to April, 2007.

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14. Attached hereto as Exhibit H is a true and correct copy of excerpts from the LegalMetric District Judge Report for the District of Delaware as of February, 2006.

I declare under penalty of perjury under the laws of the United States that the foregoing is true and correct. Executed in Palo Alto, CA, on October 29, 2007.



Katherine Nolan-Stevaux

pa-1202930

**IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF DELAWARE**

CERTIFICATE OF SERVICE

I, Kenneth L. Dorsney, hereby certify that on October 29, 2007, the attached document was electronically filed with the Clerk of the Court using CM/ECF which will send notification to the registered attorney(s) of record that the document has been filed and is available for viewing and downloading.

I hereby certify that on October 29, 2007, I have Electronically Mailed the document to the following person(s):

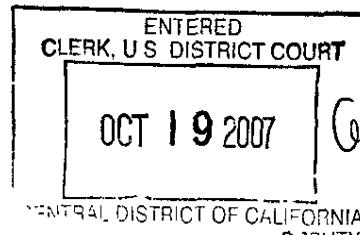
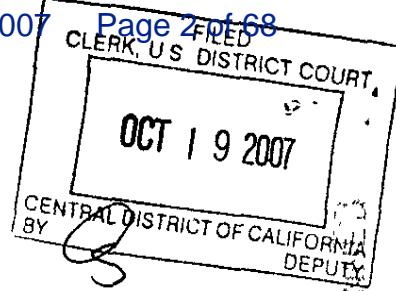
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EXHIBIT A



Priority
Send
Enter
Closed
JS-5/JS-6
JS-2/JS-3
Scan Only

UNITED STATES DISTRICT COURT
CENTRAL DISTRICT OF CALIFORNIA

MEDEGEN MMS, INC.,

Plaintiff,

v.

ICU MEDICAL, INC.,

Defendant.

Case No. SA CV 06-619 MRP (ANx)

**ORDER DISMISSING ICU'S
COUNTERCLAIMS WITHOUT
PREJUDICE**

Following this Court's order granting Summary Judgment of Noninfringement to ICU, ICU sought trial of its counterclaims for declaratory judgment of invalidity and inequitable conduct. Medegen objected. The Court asked the parties to brief the issue of jurisdiction and discretion to try the counterclaims.

Having read and considered Medegen's and ICU's respective Memoranda Regarding Counterclaims, the Court concludes that even after noninfringement has been found, there is still a case or controversy adequate to support jurisdiction over a declaratory judgment counterclaim. *Fort James Corp. v. Solo Cup Co.*, 412 F.3d 1340, 1348 (Fed. Cir. 2005) (citing *Altvater v. Freeman*, 319 U.S. 359 (1943)). However, the issue of whether to hear ICU's counterclaims is a matter within the

THIS CONSTITUTES NOTICE OF ENTRY
AS REQUIRED BY FRCP, RULE 77(d)

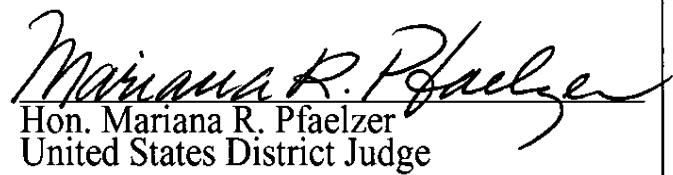
159

1 Court's discretion. *Nestier Corp. v. Menasha Corp.-Lewisystems Div.*, 739 F.2d
2 1576 (Fed. Cir. 1984). Accordingly, in consideration of the time and expense
3 which would be involved in a further trial, the Court exercises its discretion to
4 enter judgment in the matter without trial of ICU's counterclaims.

5 The Court dismisses ICU's counterclaims without prejudice as moot.
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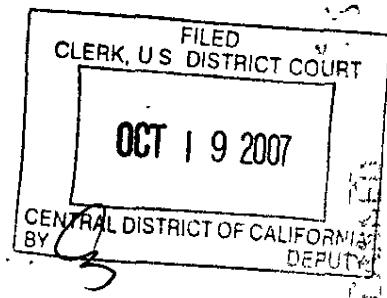
7 IT IS SO ORDERED.
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9 DATED: October 17, 2007


10 Hon. Mariana R. Pfaelzer
United States District Judge

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EXHIBIT B



Priority	<input checked="" type="checkbox"/>
Send	<input checked="" type="checkbox"/>
Enter	<input checked="" type="checkbox"/>
Closed	<input checked="" type="checkbox"/>
JS-5 JS-6	<input checked="" type="checkbox"/>
JS-2/JS-3	<input type="checkbox"/>
Scan Only	<input type="checkbox"/>

UNITED STATES DISTRICT COURT
CENTRAL DISTRICT OF CALIFORNIA

MEDEGEN MMS, INC.,

Plaintiff,

v.

ICU MEDICAL, INC.,

Defendant.

Case No. SA CV 06-619 MRP (ANx)

JUDGMENT OF
NONINFRINGEMENT OF UNITED
STATES PATENT NO. 5,730,418 C1

Pursuant to this Court's Order of September 14, 2007 Granting Defendant ICU's Motion for Summary Judgment of Noninfringement, which was granted upon consideration of ICU's Motion for Summary Judgment of Noninfringement, Medegen's Opposition and ICU's Reply, as well as all submitted supplemental memoranda, declarations and exhibits by both parties, including all relevant authorities cited, and the arguments and material presented at the hearing,

THIS CONSTITUTES NOTICE OF ENTRY

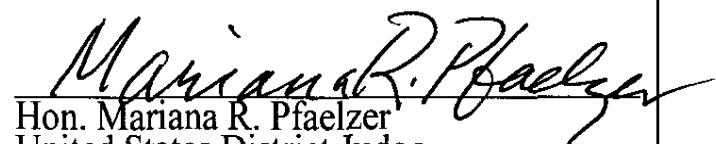
THIS CONSTITUTES NOTICE OF ENTRY
AS REQUIRED BY FRCP, RULE 77(d)

1 IT IS HEREBY ORDERED, ADJUDGED, AND DECREED:
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4 1. ICU's CLC2000 connector does not infringe United States Patent No.
5 5,730,418 C1.
6 2. Medgen's Complaint is hereby DISMISSED WITH PREJUDICE.
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9 **IT IS SO ORDERED.**

10 DATED: October 17, 2007

11 
12 Hon. Mariana R. Pfaelzer
United States District Judge

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EXHIBIT C

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For Investor Relations

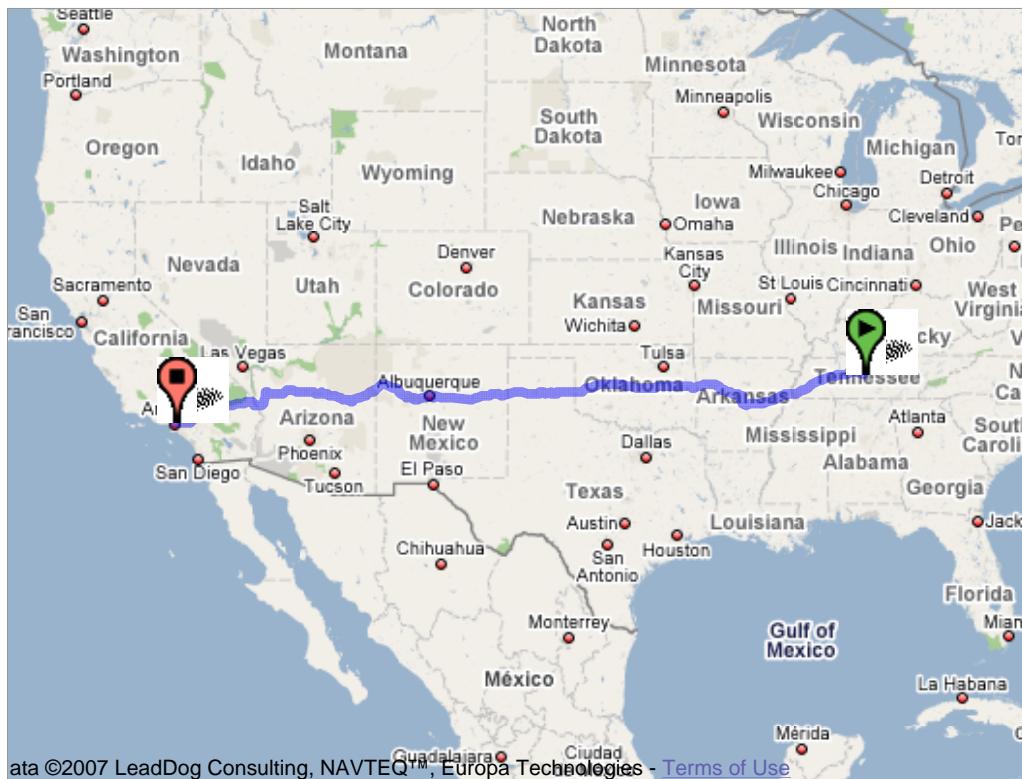
Contact: Dana Wm. Ryan, President and CEO
e-mail: info@rymedtech.com
Telephone: 615-790-8093

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EXHIBIT D



Start **Franklin, TN**
End **Los Angeles, CA**
Travel **1,999 mi – about 1 day 5 hours**



Franklin, TN

Drive: 1,999 mi – about 1 day 5 hours

1.	Head southwest on Main St toward 5th Ave S	240 ft
→	2. Turn right at 5th Ave N	0.1 mi 1 min
←	3. Turn left at TN-96	11.8 mi 18 mins
←	4. Turn left at TN-100/TN-96	5.4 mi 8 mins
5.	Take the TN-96 W ramp to Dickson/I-40	0.2 mi
6.	Merge onto TN-96	4.7 mi 9 mins
←	7. Turn left to merge onto I-40 W	171 mi 2 hours 29 mins
8.	Take exit 10B to merge onto I-40 W Passing through Arkansas Entering Oklahoma	475 mi 6 hours 57 mins
9.	Take the exit onto I-35 S/I-40 W/Stanley Draper Expy/US-62 W toward Amarillo Continue to follow I-40 W	1,216 mi 16 hours 57 mins

Passing through Texas, New Mexico, Arizona
Entering California

10. Merge onto I-15 S	58.6 mi
	51 mins
11. Take the exit onto I-15 S toward Los Angeles/San Diego	14.0 mi
	13 mins
12. Take the exit onto I-10 W toward Los Angeles	40.7 mi
	40 mins
13. Merge onto US-101 N	1.0 mi
	1 min
14. Take exit 2C for Spring St	0.1 mi
→ 15. Turn right at N Spring St	0.4 mi
→ 16. Turn right at Tom Bradley Blvd	210 ft
 Los Angeles, CA	

These directions are for planning purposes only. You may find that construction projects, traffic, or other events may cause road conditions to differ from the map results.

Map data ©2007 NAVTEQ™, Sanborn



Start **Wilmington, DE**
 End **Franklin, TN**
 Travel **789 mi – about 12 hours 28 mins**



Wilmington, DE

Drive: 789 mi – about 12 hours 28 mins

1.	Head northwest on E 4th St toward N Market St	0.3 mi 1 min
← 2.	Turn left at N Washington St	0.1 mi 1 min
→ 3.	Turn right at W 2nd St	0.3 mi 1 min
← 4.	Slight left to merge onto I-95 S toward Delaware Memorial Bridge/ Baltimore Partial toll road Entering Maryland	96.2 mi 1 hour 36 mins
5.	Take exit 27 to merge onto Capital Beltway/I-495 W toward Silver Spring Entering Virginia	22.8 mi 25 mins
6.	Take exit 49 to merge onto I-66 W toward Front Royal/Manassas	64.4 mi 1 hour 2 mins
7.	Take exit 1A to merge onto I-81 S toward Roanoke Entering Tennessee	376 mi 5 hours 48 mins
8.	Take exit 1B to merge onto I-40 W toward Knoxville	208 mi

	3 hours 8 mins
9. Continue on I-24 E (signs for I-440 W/Chattanooga/Memphis/I-24 E)	0.8 mi 1 min
10. Take exit 53 to merge onto I-440 W toward Memphis	2.6 mi 3 mins
11. Take exit 5 to merge onto I-65 S toward Huntsville	15.0 mi 14 mins
12. Take exit 65 for TN-96 toward Franklin/Murfreesboro	0.2 mi
→ 13. Turn right at Murfreesboro Rd/TN-96 Continue to follow TN-96	2.6 mi 6 mins
14. Continue on 3rd Ave S	0.1 mi 1 min
→ 15. Turn right at Public Square	125 ft
← 16. Turn left to stay on Public Square	256 ft
→ 17. Turn right at Main St	0.1 mi



These directions are for planning purposes only. You may find that construction projects, traffic, or other events may cause road conditions to differ from the map results.

Map data ©2007 NAVTEQ™, Sanborn

EXHIBIT E

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IN THE UNITED STATES DISTRICT COURT

FOR THE NORTHERN DISTRICT OF CALIFORNIA

ICU MEDICAL, INC.,

No. C 01-03202 CRB

Plaintiff,

CLAIM CONSTRUCTION ORDER

v.

B. BRAUN MEDICAL, INC.,

Defendant.

This suit involves the alleged infringement of United States Patent No. 6,669,673 (the “‘673 Patent”). The ‘673 Patent discloses a valve to be used in medical environments to connect two fluid-carrying instruments allowing transmission of fluids between them. Now before the Court is the task of construing certain claim terms over which the parties remain in dispute.

A. Legal Standard

Patent infringement analysis involves two steps. The first step is to construe the asserted claims, and the second step is to determine whether the accused method or product infringes any of the claims as properly construed. See Markman v. Westview Instruments, Inc., 52 F.3d 967, 976 (Fed. Cir. 1995) (en banc), aff’d 517 U.S. 370 (1996). The first step, construction of the patent claims, is a matter of law and thus the responsibility of the court. See id. at 979.

“[I]n interpreting an asserted claim, the court should look first to intrinsic evidence of record, i.e., the patent itself, including the claims, the specification and, if in evidence, the prosecution history.” Vitronics Corp. v. Conceptronic, Inc., 90 F.3d 1576, 1582 (Fed. Cir. 1996). In examining

1 intrinsic evidence, the court should first look to the words of the claims themselves to define the
 2 scope of the patented invention. See id. Words in a claim “are generally given their ordinary and
 3 customary meaning.” Id.

4 The specification is also examined “to determine if the presumption of ordinary and
 5 customary meaning is rebutted.” Brookhill-Wilk I v. Intuitive Surgical, 334 F.3d 1294, 1298 (Fed.
 6 Cir. 2003) (citations omitted). The presumption of ordinary meaning may be rebutted in two ways.
 7 First, the inventor can rebut ordinary meaning where she “has disavowed or disclaimed scope of
 8 coverage, by using words or expressions of manifest exclusion or restriction, representing a clear
 9 disavowal of claim scope.” Id. at 1299 (citations omitted). Second, the patentee may “act[] as his or
 10 her own lexicographer [by] clearly set[ting] forth a definition of the term different from its ordinary
 11 and customary meaning.” Id. (citations omitted). With respect to this second method of redefinition,
 12 the Federal Circuit has recently established that this may be done “by implication,” that is, by
 13 “[using] a claim term throughout the entire patent specification, in a manner consistent with only a
 14 single meaning.” Irdeto Access, Inc. v. Echostar Satellite Corp., 383 F.3d 1295, 1301 (Fed. Cir.
 15 2004) (quoting Bell Atlantic Network Services, Inc. v. Covad Communications Group, Inc., 262
 16 F.3d 1258, 1271 (Fed. Cir. 2001)). This is accomplished where the patent “repeatedly, consistently,
 17 and exclusively” uses the term such as to indicate “the patentee’s clear intent to . . . limit the term.”
 18 Id. at 1302.

19 Much of the parties’ dispute in the present construction centers around their different views
 20 of how this Court should determine whether the terms at issue have an “ordinary and customary”
 21 meaning. Braun’s argument relies, in part, on their position that many of the terms in the claim do
 22 not possess any specialized meaning to those of skill in the art and thus must be defined by the usage
 23 of the terms in the specification. ICU’s view is that the terms in the claims can be defined according
 24 to the generalized, non-technical meanings that would be understood by any layperson. In this
 25 regard, ICU’s argument is that this Court’s claim construction should begin with the definition
 26 provided by a general usage dictionary. Braun’s argument is that the specification acts as the
 27 primary source for defining the terms.

28

Both parties' positions find at least some basis in law. Braun's position is supported by one line of cases which provides that "where evidence such as expert testimony or technical dictionaries demonstrates that artisans would attach . . . no meaning to the claim term independent of the specification 'general-usage dictionaries are rendered irrelevant with respect to that term.'" Irdeto Access, 383 F.3d at 1300 (quoting Vanderlande Indus. Nederland BV v. Int'l Trade Comm'n, 366 F.3d 1311, 1321 (Fed. Cir. 2004)). ICU's position is bolstered by a second line of cases, which state that "[i]t is well settled that dictionaries provide evidence of a claim term's ordinary meaning" and that where a particular term does not have "an established specialized meaning in technical dictionaries . . . of the relevant field of art . . . standard dictionaries of the English language are the proper source of ordinary meaning of the phrase." Inverness Med. Switz. GmbH v. Princeton Biomeditech Corp., 309 F.3d 1365, 2369 (Fed. Cir. 2002) (citations omitted).

This Court acknowledges that there is tension between these cases, and that this tension will almost certainly be resolved by the Federal Circuit in the coming months. See Phillips v. AWH Corp., 376 F.3d 1382 (Fed. Cir. 2004) (granting petition for rehearing en banc and directing briefing, inter alia, on the relative roles that dictionaries and the specification play in claim construction). However, with respect to the case at bar, this Court finds that the tension does not preclude decision because the parties positions are similar enough that the result would be the same regardless of which line of cases is adopted. Both parties in their briefs have agreed that a general-usage dictionary should play some role in this claim construction. Cf. ICU Opening Brief, at 11 (arguing for use of dictionary definition of "flexible element") with Braun Brief, at 10 (arguing for use of dictionary definition of "flexible"). The focus of the parties' dispute is therefore narrower than the dispute that Phillips will resolve. That is, the parties here merely dispute what weight should be given to the available dictionary definitions when compared to the specification. ICU argues that the dictionary definitions represent "ordinary meaning" and thus there should be a strong presumption that their full breadth is claimed unless something in the specification expressly narrows the scope of the terms. See Brookhill-Wilk I, 334 F.3d at 1298-99 (claims given full scope unless patentee has expressly disavowed scope of coverage). Braun argues that no such presumption should be given, and that instead this Court should evaluate all of the intrinsic evidence—particularly the

specification—in order to come to a conclusion with respect to the scope of the terms. See Irdeto Access, 383 F.3d at 1300 (“absent . . . an accepted meaning [in the art, the court] construe[s] a claim term only as broadly as provided for by the patent itself.”) (citing J.T. Eaton & Co. v. Atl. Paste & Glue Co., 106 F.3d 1563, 1570 (Fed. Cir. 1997)). This Court, however, does not view Irdeto Access as foreclosing any reference to general-usage dictionaries or, for that matter, common sense in construing terms that lack any specialized meaning. To so hold would mean that novel phrases used to describe novel ideas would always have to be defined ad nauseam in a patent specification when resort to simple, commonly understood words in the English language would provide sufficient meaning to satisfy the patent’s “notice function.” See Irdeto Access, 383 F.3d at 1303. See also RF Delaware, Inc. v. Pacific Keystone Tech., Inc., 326 F.3d 1255, 1263 (Fed. Cir. 2003) (holding that “when a claim term is expressed in general descriptive words, it typically will not be limited” by the preferred embodiment or by other claims). It would also mean that in cases, such as this one, where the specification does not use disputed terms or uses them only sparingly, such terms would be rendered meaningless, making the process of claim construction impossible. Irdeto Access itself refused to go so far, restricting its holding to the particular circumstances in that case in which the applicant had “unequivocally directed the patent examiner, as well as the public, to the specification as the complete source of meaning for the disputed terms.” Id. Moreover, in that case the court also limited its holding to the fact that the specification had “repeatedly, consistently, and exclusively” used the disputed term in a manner consistent with a narrow interpretation. Id.

In short, this Court finds it enough to hold that in the instant case the ordinary meaning of a term may be determined by reference to a general usage dictionary. However, because this Court finds that none of the disputed terms have specialized meanings in the relevant art,¹ they will not obtain the strong presumption that is provided for in the relevant cases. Instead, this Court will resort to the specification to determine whether the ordinary meaning should be abandoned in favor

¹Braun’s expert argues that none of the disputed terms have specialized meanings, while ICU’s expert states that an individual skilled in the relevant art would recognize the terms to mean what ICU says they mean. ICU’s expert, however, cites no specialized dictionaries, treatises or other support of the specialized status of the relevant terms. Moreover, the patent itself is often not internally consistent in its use of the terms: it uses one term (e.g. “flexible element”) to refer to an object in the claims and another (e.g. “seal”) to refer to the same object in the specification. For these reasons, the Court finds that the none of the disputed terms have specialized meanings.

1 of a meaning that is more consistent with the use of the term in context. In any event, the
 2 overarching rule remains that the claim serves as the primary reference point for the meaning of the
 3 terms. See Teleflex, Inc. v. Ficosa North America Corp., 299 F.3d 1313, 1328 (Fed. Cir. 2002)
 4 (absent a clear statement regarding scope, the court is constrained to follow the language of the claim
 5 rather than the written description).

6 **B. Flexible Element**

7 ICU argues that the term “flexible element” should be defined as “portion that is capable of
 8 being bent or flexed” while Braun argues that it should mean an element that is “capable of being
 9 bent without breaking, easily bent” but “not using mechanical or moving parts such as springs or
 10 diaphragms.” Revised Joint Claim Construction and Prehearing Statement for ‘673 Patent
 11 (“RJCCPS”) at 3. Thus, Braun’s definition is narrower than ICU’s in two respects: 1) “flexible”
 12 means flexible without breaking; and 2) “flexible” means not using mechanical or moving parts.²

13 **1. Bent Without Breaking**

14 The parties agree that the construction of the term “flexible” begins with its dictionary
 15 definition. ICU Opening Brief at 11; Braun Brief at 10. The parties further agree that the 1987
 16 edition of the Random House Unabridged Dictionary is the proper general-usage dictionary for this
 17 claim construction. ICU Opening Brief at 11; Braun Brief at 10. Random House defines “flexible”
 18 as:

19 1. capable of being bent, usually without breaking; easily bent . . . 2. susceptible to
 20 modification or adaptation.; adaptable . . . ; 3. willing or disposed to yield; pliable . . .
 4. a flexible substance or material, as rubber or leather.

21 Random House Unabridged Dictionary 733 (2d ed. 1987). This Court thus may easily dispose of
 22 Braun’s limitation that a “flexible” object must be able to be bent without breaking. The dictionary
 23 definition makes no such categorical statement. Both parties would have been more consistent with
 24 their dependence on the dictionary had they argued that “flexible” means “usually without breaking.”
 25 Accordingly, this Court will construe the term as including structures that are capable of being bent,
 26 but usually without breaking.

27 ²Braun also contends that this Court’s construction of “flexible element” must incorporate the
 28 other requirements of the object stated in the claim. However if this Court were to read those other
 limitations into the definition of the term then the claim would become redundant.

1 This construction is consistent with the use of the term in the patent. The claim states that
 2 the flexible element must be “movable between an uncompressed position . . . and a compressed
 3 position,” while also being able to “flex[] to accommodate axial compression.” Col. 16:4-12. The
 4 specification refers to the “seal”³ as being “reusable,” and “resilient.” Col. 2:43-44, 3:35. A
 5 construction of the term “flexible” as being easily broken upon compression would conflict with
 6 these statements and thus is excluded. However, a construction of the term as being so resilient as to
 7 stand up to very strong compression such that it could never be broken would define term in a way
 8 not supported by the patent.

9 **2. Mechanical Parts, Springs and Diaphragms**

10 Braun is incorrect in asserting that the specification “disavows or distinguishes” the “flexible
 11 element” from “prior art valves and connectors that use ‘springs or diaphragms’” such that an
 12 interpretation of the “flexible element” including mechanical parts is foreclosed. Braun Brief at 14.
 13 The specification’s description of the advantages of the invention over prior art devices cannot limit
 14 the definition of the claim unless it constitutes a clear disavowal. See Brookhill-Wilk I, 334 F.3d at
 15 1301 (“Advantages described in the body of the specification, if not included in the claims, are not
 16 per se limitations to the claimed invention.”) (citations omitted); Astrazeneca AB, Aktiebolaget
 17 Hassle, KBI-E, Inc. v. Mutual Pharmaceutical Co., Inc., 384 F.3d 1333, 1340 (Fed. Cir. 2004)
 18 (criticism of prior art may be a disavowal if implication is clear from discussion of particular feature
 19 of the invention). Contrary to Braun’s reading of the patent, it can not be said that the specification
 20 “repeatedly, consistently and exclusively” discusses seals as not having mechanical parts. Irdeto
 21 Access, 383 F.3d at 1303.

22 The specification describes the prior art mechanical connectors as inferior because they were
 23 more prone to malfunction upon repeated use. Col. 1:35-46. The specification does not say that the
 24 invention in the ‘673 Patent will never have mechanical parts. Nor does it say that all inferior
 25 designs have mechanical parts. Col. 1:35 (stating that prior art connectors “often have mechanical or
 26 moving parts” (emphasis added)). Instead, the specification describes the claimed invention as

27
 28 ³The parties agreed at oral argument that the term “seal” in the specification is equivalent to the term “flexible element” in the claim. Thus in construing the term “flexible element,” this Court will take into consideration the use of the term “seal” in the specification.

1 superior to prior art devices because “the *fewer* the mechanical parts the more these connectors can
 2 be relied on . . .” Col. 1 44-45. Thus the specification merely states that it is preferable for medical
 3 valves of the type disclosed in the ‘673 Patent to have few, although not necessarily zero, mechanical
 4 parts. If Braun’s interpretation of this portion of the specification as a clear disavowal of all flexible
 5 elements using mechanical parts were accepted, then the claimed invention could also never have
 6 “moving parts.” See Col. 1:41-43 (“[t]he more mechanical or *moving parts* such as springs and
 7 diaphragms, the more likely that they will function improperly.” (emphasis added)). However, the
 8 claimed invention undisputedly does have at least one moving part—the flexible element itself. Col.
 9 9:37 (describing the seal in one preferred embodiment as a “movable part[]”).

10 Accordingly, this Court construes the term “flexible element” to mean a portion of the valve
 11 that is capable of being bent, usually without breaking.

12 C. Compressed Position

13 ICU argues that the term “compressed position” should be interpreted to mean “location in
 14 which the flexible element is depressed into less space in the cavity.” RJCCPS at 4. Braun contends
 15 that the proper definition of the phrase is “the position of the flexible element when it is under axial
 16 compression and fully opens the valve.” Id. The parties’ central point of contention on this issue is
 17 whether “compressed position” requires full or complete compression, or put differently, whether
 18 partial compression is within the scope of the term. The parties also dispute whether the
 19 compression referred to is necessarily axial compression, or includes other directions of compression
 20 as well.

21 1. Fully Open

22 Reading “compressed position” in the context of the claim and specification,⁴ it becomes
 23 clear that the term refers to a configuration of the flexible element in which the valve is in an open
 24 state and fluid is allowed to move through it. Col. 16:5-8 (describing “a compressed position in
 25 which fluid flow is permitted through said valve”). Thus the parties’ disagreement can be described

27 ⁴The parties agree that the terms “compressed position” and “uncompressed position” in the
 28 claim are equivalent to the terms “compressed state” and “decompressed state,” respectively, in the
 specification. Therefore, the use of the latter terms in the specification is relevant to the construction
 of the former terms.

1 as whether the flexible element can be in a “compressed position” even though the flexible element
 2 may still be partially obstructing the fluid from flowing through the valve.

3 Braun’s argument focuses on Claim 1’s use of the word “between” in its statement that the
 4 flexible element is “movable between an uncompressed position . . . and a compressed position . . . ”
 5 Col. 16:5-8. According to Braun, this requires that there is only one single compressed position in
 6 which the flexible element is fully compressed. However, there is nothing inherent in the word
 7 “between” that implies that the valve be fully opened. The flexible element could just as easily be
 8 understood to move “between” a closed position and a partially open position. Although Braun
 9 insists that ICU’s understanding is an attempt to rewrite the claim language, it is Braun’s
 10 interpretation that seeks an impermissible revision. Under Braun’s construction the claim would be
 11 rewritten from “a compressed position in which fluid is permitted through said valve” to “a fully
 12 compressed position in which maximum fluid flow is permitted through said valve.” This Court is
 13 not permitted to do so, and thus Braun’s proposed limitation is rejected.

2. Axial Compression

14 Braun also argues that the compression referred to by the terms “compressed position” and
 15 “uncompressed position” may only be axial compression. This time Braun is correct. ICU contends
 16 that the claim contains no such limitation and gives as examples statements in the specification
 17 indicating that the flexible element exerts radial compression on the inner wall of the valve in both
 18 the compressed and uncompressed positions:

19 The seal in the decompressed state . . . bears against the wall structure near the
 20 opening to seal the opening . . . A fluid tight seal is maintained between the seal
 21 section and the wall structure as the seal is moved into the compressed state. The seal
 22 section bears against the wall structure . . .

23 Col. 3:38-48. However ICU must rip this excerpt from its context in order to retrieve the desired
 24 meaning. Immediately before this portion, the specification states “[t]he third feature is that the
 25 resilient seal is adapted to be moved into a compressed state upon insertion of the tip of the medial
 26 [sic] implement into the opening and returns to a decompressed state upon removal of the tip.” Col.
 27 3:35-38. It is clear from this statement that the source of the compression is the insertion of the
 28 medical implement into the opening of the valve. The direction of that compression is axial, that is,
 it moves along the axis of the valve. See Random House Unabridged Dictionary 145 (2d ed. 1987)

(defining axial as “situated in or on an axis”). The compression referred to in the excerpt cited by ICU is the force applied by flexible element against the inner wall of the valve while it under axial compression from the medical implement. If, on the other hand, ICU is claiming that the statement that the flexible element “bears against the wall structure” in the “decompressed state” demonstrates non-axial compression, then ICU refutes its own argument. As discussed more thoroughly below, it cannot be the case that the flexible element is experiencing any compression from the medical implement in the “uncompressed position.”

In using the terms “compressed,” “uncompressed” and “decompressed” the patent repeatedly, consistently and exclusively refers to axial compression. For example, the claim discusses the wall of the flexible element as “flexing to accommodate axial compression.” Col. 16:11-12. The specification states that “[a] two-way valve eliminating dead space is used which includes a seal which, upon being *compressed by the medical implement*, is pierced to open the valve and reseals upon being decompressed” Col. 1:22-26 (emphasis added). ICU has failed to offer any statement in intrinsic evidence that contradicts this meaning. As such, this Court finds that the terms “compressed position” and “uncompressed position” refer only to axial compression.

Accordingly, the term “compressed position” is construed as the position of the flexible element when it is under axial compression from a medical implement⁵ and opens the valve.

E. Uncompressed Position

ICU argues that the term “uncompressed position” refers to the “location in which the flexible element is not depressed into less space in the cavity” while Braun states that it means “the position of the flexible element when it is not under axial compression and closes the valve.” RJCCPS at 3. The only difference in the parties’ positions is whether or not the flexible element may remain under some axial compression in the “uncompressed position.”

At the outset, ICU’s attempt to turn “un” into “some” clearly conflicts with ordinary meaning. ICU argues that its construction is supported by a statement in the specification that “[t]he seal has a lip . . . [that] upon assembly . . . is compressed between the locking elements.” In

⁵The addition of “from a medical implement” is described under the Court’s construction of “uncompressed position.”

1 addition, ICU maintains that the flexible element is always under axial compression by atmospheric
2 pressure. While both of these creative arguments do confirm that there is some axial force acting on
3 the flexible element in its uncompressed position, they still mischaracterize the relevant term.
4 Clearly “uncompressed” refers to a lack of compression. This begs the question as to what source of
5 compression is referenced. The logical answer—supported by the patent’s repeated use of the
6 relevant terms—is that the compression is caused by the insertion of a medical implement into the
7 valve. Col. 1:23-25 (the valve “includes a seal which, upon being compressed by a medical
8 implement”); Col. 3:35-38 (“The third feature is that the resilient seal is adapted to be moved into a
9 compressed state upon insertion of the tip of the medial [sic] implement into the opening and returns
10 to a decompressed state upon removal of the tip”); Col. 42-45 (“In the compressed state, the
11 seal section is pushed by the delivery end of the medical implement”); Fig. 5 (depicting
12 compression of the flexible element by a syringe).

13 The term “uncompressed position” is therefore construed as the position of the flexible
14 element when it is not under axial compression from a medical implement and closes the valve.

15 **F. Ring Shaped Support**

16 ICU argues that the term “ring shaped support” should be construed as “a circular-shaped
17 structure that serves as a foundation, prop, brace or stay.” Braun seeks a much narrower
18 construction, limiting the term to “an annular cuff into which the flexible element fits.” Braun cites
19 as support for its limitation a portion of the preferred embodiment labeled the “annular cuff 28.”
20 Col. 7:29-38. However, in doing so Braun seeks to impermissibly import a limitation contained in
21 the preferred embodiment onto the claim language. See Teleflex, Inc. v. Ficosa North America
22 Corp., 299 F.3d 1313, 1328 (Fed. Cir. 2002) (cautioning against “limiting the claimed invention to
23 preferred embodiments or specific examples in the specification” (citations omitted)). The term
24 “ring shaped support” uses plain words and the phrase has an ordinary meaning based on the
25 constituent terms’ general usage. Braun’s attempt to inject ambiguity where there is none is rejected.

26 ICU’s interpretation, on the other hand, simply redefines the term “ring shaped support”
27 using dictionary definitions that in no way clarifies the scope of the term. This Court finds little use
28

1 in doing so and instead agrees with ICU's alternative interpretation that the term is unambiguous
 2 and construction is unnecessary. RJCCPS at 4.

3 **G. Diameter**

4 ICU defines "diameter" as a "straight line passing through the center of an object from side to
 5 side." RJCCPS at 4. Braun counters that it means "a straight line passing through the center of a
 6 circle and meeting the circumference or surface at each end." *Id.* The disagreement, then, concerns
 7 whether a "diameter" can pass through a non-circular object.

8 Once again, both parties begin their definition of the term with the dictionary, which defines
 9 "diameter" as:

10 1 . . . a. a straight line passing through the center of a circle or sphere and meeting the
 11 circumference or surface at each end. b. a straight line passing from side to side of
 12 any figure or body, through its center. 2. The length of such a line. 3. the width of a
 13 circular or cylindrical object.

14 Random House Unabridged Dictionary 547 (2d ed. 1987). The parties are consequently asking this
 15 Court to choose between two equally applicable dictionary definitions. In this context, the Federal
 16 Circuit has instructed that,

17 [b]ecause words often have multiple dictionary definitions . . . the intrinsic record
 18 must always be consulted to identify which of the different possible dictionary
 meanings of the claim terms in issue is most consistent with the use of the words by
 the inventor . . . If more than one dictionary definition is consistent with the use of
 the words in the intrinsic record, the claim terms may be construed to encompass all
 such consistent meanings.

19 Texas Digital Sys. v. Telegenix, Inc., 308 F.3d 1193, 1203 (Fed. Cir. 2002); Blistad v. Wakalopulos,
 20 No. 03-1528, 2004 WL 2248109 (Fed. Cir. Oct. 7, 2004). Under this rule, this Court finds that
 21 Braun's definition is "most consistent" with the use of the word in the patent.

22 ICU points to two examples in the specification that it contends demonstrates the correctness
 23 of its interpretation. First, ICU points to the statement in the context of the description of an
 24 embodiment that "during compression of the seal 36a, the diameter of the ringed wall portions 94
 25 expand outward in the radial direction." Col. 12:13-15. However the "ringed wall" is circular and
 26 thus is consistent with Braun's definition. Second, ICU cites a preferred embodiment that "has a
 27 bell-shaped skirt and an upper, preferably cylindrical, conduit." Col. 6:65-67. Apparently it is ICU's
 28 contention that the excerpts use of the term "preferably" alludes to the possibility of non-circular

1 shapes. The excerpt, however, doesn't even use the term "diameter." Moreover, the shapes it does
 2 refer to are circular, in that a cross section of a "bell-shaped skirt" or a "cylindrical" conduit would
 3 be a circle.

4 Each of the specification's uses of the term "diameter" correspond with circular objects. Col.
 5 4:4-5 ("The O-ring elements have increasing diameters, with the smallest diameter element begin
 6 [sic] adjacent the proximal end of the cavity."); Col. 7:12-24 (referring to the "outer diameter" of the
 7 "upper conduit" in Figs. 4, 5 and 19, which the diagrams depict as circular).

8 The term "diameter" shall thus be construed as proposed by Braun.

9 **H. Substantially Flat and Substantially Flush**

10 The Court finds that the terms "substantially flat" and "substantially flush" are unambiguous
 11 and therefore require no construction.

12 **I. Support Member**

13 ICU proposes that this term be defined as "a constituent part that serves as a foundation,
 14 prop, brace or stay." RJCCPS at 4. Braun defines the term as "a member that supports the valve in a
 15 manner that allows it to be removably attached to a fluid dispenser." *Id.* Braun's definition therefore
 16 attempts to define the term according to the surrounding claim language, which recites: "The valve
 17 of claim 1, wherein said medical valve further comprises a support member enabling said valve to be
 18 removably attached to a fluid dispenser." Col. 16:28-31. Braun's definition also adds a further
 19 limitation—that the "manner" of support provided by the support member relates to its ability to
 20 enable the valve to be removably attached to a fluid dispenser.

21 The specification discusses the "support member" in the following context:

22 The fifth feature is that the medical valve includes a support member connected to the
 23 spike which seals off the distal end of the cavity. The support member may have a
 24 Luer-Lock type connector element that enables the valve to be removably attached to,
 25 for example, a fluid line connected to a patient. The support member may also be in
 26 the form of an adaptor that enables the valve to be removably attached to a fluid
 27 dispenser or container.
 28 Col. 4:26-33. This description reveals that there is nothing inherent in "the manner" the support
 member supports the valve that relates to its ability to be "removably attached to a fluid dispenser."
 In fact, this excerpt demonstrates that the support member may allow the valve to be removably
 attached to a fluid dispenser either by having a part that is a "Luer-Lock type connector" or by itself

1 being in the form of an adaptor that provides that ability. Braun's limitation is consequently refuted
 2 by the intrinsic evidence.

3 Accordingly, the term "support member" shall be construed in the manner proposed by ICU.

4 **J. Removably Attached to a Fluid Dispenser**

5 The Court finds that this phrase is unambiguous and therefore does not require construction.

6 **K. Single Molding**

7 Claim 5 discloses "[t]he valve of claim 1, wherein said flexible element comprises a single
 8 molding." Col. 16:32-33. ICU argues "single molding" means "formed from a single mold" while
 9 Braun contends it means "that the flexible element must be formed from a single mold." RJCCPS at
 10 5. The parties both agree that the term "single molding" means "formed from a single mold." The
 11 parties also agree that it is the flexible element that is formed from a single mold. ICU Reply Brief
 12 at 15. Thus there is no real dispute with respect to the construction of this term. Because Braun's
 13 definition is redundant, the Court will give the term the construction offered by ICU.

14 **L. Rigid Member**

15 The only dispute with respect to the construction of this term is the definition of the word
 16 "rigid." See RJCCPS at 5. ICU argues that "rigid" means "stiff," while Braun proposes that it be
 17 construed as "stiff or unyielding, not pliant or flexible." *Id.* In the Court's view, neither definition
 18 adds clarity to the scope of the term and therefore both are rejected. The term is unambiguous and
 19 therefore no construction is necessary.

20 **IT IS SO ORDERED.**

21
 22
 23 Dated: November 8, 2004

24
 25
 26
 27
 28 /s/
 CHARLES R. BREYER
 UNITED STATES DISTRICT JUDGE

EXHIBIT F

IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF CALIFORNIA

ICU MEDICAL, INC.,

No. C 01-3202 CRB

Plaintiff,

**ORDER RE: MOTIONS FOR
SUMMARY JUDGMENT AND
SCHEDULING TRIAL**

v.

B.BRAUN MEDICAL INC.,

Defendants.

/

For the Northern District of California Plaintiff and Counterclaim Defendant ICU Medical, Inc. (“ICU”) brought this suit against Defendant and Counterclaimant B.Braun Medical, Inc. (“Braun”) for infringement of U.S. Patent No. 5,928,204 (“the ‘204 patent”) and U.S. Patent No. 6,669,673 (“the ‘673 patent”) by manufacturing and selling a specialized needleless medical connector. The patents relate to a medical valve for use in controlling the flow of fluid between two medical implements. The alleged infringing device is Braun’s Ultrasite valve.

ICU and Braun cross-move for summary judgment on the issue of whether the Ultrasite valve¹ infringes the ‘673 patent. Braun also seeks summary judgment of

¹ In late 2004, Braun made a modification to the Ultrasite valve by changing the molds used in manufacturing the piston component to remove an alleged “taper” in the piston skirt. The modified valve will be referred to in this Order as the Ultrasite valve with modified piston. Otherwise, the term “Ultrasite valve” will refer to both the unmodified Ultrasite valve and the Ultrasite valve with modified piston.

non-infringement of both the ‘673 and ‘204 patents by the Ultrasite valve with modified piston. Finally, ICU moves for summary judgment that the ‘673 patent is not unenforceable due to inequitable conduct on the part of the patentee.

Having carefully considered the parties' papers, and with the benefit of oral argument on February 11, 2005, the Court hereby resolves the motions as follows:

1. ICU's motion for summary judgment that Braun's Ultrasite valve infringes the '673 patent is GRANTED in part as to claims 1-2 and 5-6, and DENIED in part as to claim 3.
2. Braun's motion for summary judgment that the Ultrasite valve does not infringe the '673 patent is DENIED in part as to claims 1-2 and 4-6, and GRANTED in part as to claim 3.
3. Braun's motion for summary judgment that the Ultrasite valve with modified piston does not infringe the '673 and '204 patents is GRANTED.
4. ICU's motion for summary judgment of no inequitable conduct is DENIED.

BACKGROUND

The administration of medication in hospital and medical settings routinely involves the use of connectors and adaptors for facilitating the movement of fluids (e.g., drugs and intravenous solutions) between medical implements. Since the ready passage of fluids through the connectors and adaptors is often critical to patient survival, it is important that they operate reliably and repeatedly. Both Braun and ICU are providers of needless medical connectors.

Braun's Ultrasite valve is a needle-free, capless, swabbable valve. It contains a piston made of flexible material. When the piston is in its uncompressed state, it seals against the housing of the valve preventing fluid flow through the valve. In this state, the wall of the piston is relatively flat. When a syringe or other appropriate medical device is connected to the valve, the piston is compressed causing the piston wall to buckle. The compressed piston no longer completely seals against the valve housing because the portion of the piston that seals against the housing is moved to a location where there are

1 channels in the housing. When the piston is compressed, fluid can flow through the
 2 valve.

3 ICU is the assignee of two patents (the '673 and '204 patents) for a closed system,
 4 needleless valve device which automatically reseals after administering medication using
 5 a medical implement that directly connects with the system without the need of any
 6 intermediary needles, caps, or adaptors.

7 **I. THE '673 PATENT**

8 Independent claim 1 reads:

9 A medical valve for controlling the flow of fluid between a first medical
 10 implement and a second medical implement, said valve comprising:
 11 . . .

12 . . . a flexible element positioned in said cavity movable between an uncompressed
 13 position in which a portion of the flexible element bears against the wall structure
 14 near said opening and obstructs fluid flow through said valve and a compressed
 15 position in which fluid flow is permitted through said valve, said flexible element
 16 comprising a wall with an inner surface and an outer surface, the wall flexing to
 17 accommodate axial compression of said flexible element, said flexible element
 18 comprising an end fitting against a ring shaped support to assist in securing said
 19 flexible element in said cavity, said flexible element in said uncompressed position
 20 comprising a first external diameter near said opening, a second external diameter
 21 in said main portion, said second diameter being smaller than said first diameter
 22 and said third diameter, and at least a portion of the outer surface of the wall of the
 23 flexible element between the second diameter and the third diameter being tapered.

24 U.S. Patent No. 6,669,673 (issued Dec. 30, 2003). Claims 2-6 are dependent claims from
 25 claim 1.

26 The Court issued its claim construction order regarding the '673 patent on
 27 November 8, 2004 (the "Markman Order"). In its Markman Order, the Court determined
 28 that the term "flexible element" should be defined as "a portion of the valve that is
 capable of being bent, usually without breaking." Markman Order at 7. The flexible
 element must be moveable from an uncompressed position, in which the valve is closed,
 to a compressed position, in which "it is under axial compression from a medical
 implement" and "the valve is in an open state and fluid is allowed to move through it."
Id. at 9, 7. When the flexible element is in an uncompressed position, it must "bear
 against the wall structure" and "obstruct[] fluid flow" through the valve. '673 Patent
 Claim 1.

1 **II. THE '204 PATENT**

2 Independent claim 1 reads:

3 A seal for use in selectively opening and closing a fluid pathway through a medical
 4 connector comprising a resilient seal element having a wall having a top end and a bottom end, said wall including at least two generally arcuate segments each
 5 having an outwardly extending portion, said segments intersecting one another and defining at least one space between where said segments intersect and a line
 6 tangential to the outwardly extending portions of both segments, and at least one segment proximate to said bottom end having a larger maximum diameter than a second segment nearer to said top end of said element.

7
 8 U.S. Patent No. 5,928,204 (issued July 27, 1999). Claims 2-5 are dependent claims from
 9 claim 1.

10 **DISCUSSION**

11 ICU and Braun cross-move for summary judgment on the issue of whether Braun's
 12 Ultrasite valve infringes claims 1-3 and 5-6 of the '673 patent. Braun also seeks
 13 summary judgment of non-infringement by the Ultrasite valve with modified piston with
 14 regard to claims 1-6 of the '673 patent and claims 1-5 of the '204 patent. Finally, ICU
 15 moves for summary judgment that the '673 patent is not unenforceable due to inequitable
 16 conduct on the part of the patentee.

17 **I. STANDARD OF REVIEW FOR SUMMARY JUDGMENT**

18 Summary judgment is appropriate when the "pleadings, depositions, answers to
 19 interrogatories, and admissions on file, together with the affidavits, if any, show that there
 20 is no genuine issue as to any material fact and that the moving party is entitled to
 21 judgment as a matter of law." Fed. R. Civ. P. 56(c). An issue is "genuine" only if there is
 22 sufficient evidence for a reasonable fact finder to find for the non-moving party. See
 23 Anderson v. Liberty Lobby, Inc., 477 U.S. 242, 248-49 (1986). A fact is "material" if the
 24 fact may affect the outcome of the case. See id. at 248. "In considering a motion for
 25 summary judgment, the court may not weigh the evidence or make credibility
 26 determinations, and is required to draw all inferences in a light most favorable to the
 27 non-moving party." Freeman v. Arpaio, 125 F.3d 732, 735 (9th Cir. 1997). A principal

1 purpose of the summary judgment procedure is to identify and dispose of factually
 2 unsupported claims. See Celotex Corp. v. Catrett, 477 U.S. 317, 323-24 (1986).

3 The party moving for summary judgment bears the initial burden of identifying
 4 those portions of the pleadings, discovery, and affidavits that demonstrate the absence of
 5 a genuine issue of material fact. See id. at 323. Where the moving party will have the
 6 burden of proof on an issue at trial, it must affirmatively demonstrate that no reasonable
 7 trier of fact could find other than for the moving party. See id. Once the moving party
 8 meets this initial burden, the non-moving party must go beyond the pleadings and by its
 9 own evidence “set forth specific facts showing that there is a genuine issue for trial.”
 10 Fed. R. Civ. P. 56(e). The non-moving party must “identify with reasonable particularity
 11 the evidence that precludes summary judgment.” Keenan v. Allan, 91 F.3d 1275, 1279
 12 (9th Cir. 1996) (quoting Richards v. Combined Ins. Co., 55 F.3d 247, 251 (7th Cir. 1995)),
 13 and noting that it is not a district court’s task “to scour the record in search of a genuine
 14 issue of triable fact”). If the non-moving party fails to make this showing, the moving
 15 party is entitled to judgment as a matter of law. See Celotex, 477 U.S. at 323.

II. INFRINGEMENT OF THE ‘673 PATENT

17 A patent infringement analysis involves two steps: claim construction and then
 18 applying the construed claim to the accused device. Markman v. Westview Instruments,
 19 Inc., 52 F.3d 967, 976 (Fed. Cir. 1995). The first step, construing the claims to determine
 20 their meaning and scope, has been held to be purely a matter of law. See Cybor Corp. v.
 21 FAS Techs., Inc., 138 F.3d 1448, 1454 (Fed. Cir. 1998). The second step, application of
 22 the claim to the accused device, is a fact-specific inquiry. See Bai v. L & L Wings, Inc.,
 23 160 F.3d 1350, 1353 (Fed. Cir. 1998) (“[I]nfringement, whether literal or under the
 24 doctrine of equivalents, is a question of fact.”). If each limitation of the patent claim is
 25 found in the accused device, either literally or as a substantial equivalent, the accused
 26 device infringes that claim. Warner-Jenkinson Co. v. Hilton Davis Chem. Co., 520 U.S.
 27 17, 29 (1997).

Summary judgment is appropriate in infringement suits when, drawing all reasonable inferences in favor of the non-moving party, there is no genuine issue of material fact. Johnson Worldwide Assocs., Inc. v. Zebco Corp., 175 F.3d 985, 988 (Fed. Cir. 1999). Because the relevant aspects of the accused device's structure and operation are undisputed in this case, the question of infringement collapses to one of claim construction and is particularly amenable to summary judgment. Id.

A. Literal Infringement

To establish literal infringement, the accused device must "contain each limitation of the claim exactly." Litton Sys., Inc. v. Honeywell Inc., 140 F.3d 1449, 1454 (Fed. Cir. 1998). The Court will proceed to compare the accused Ultrasite valve against all the claims and each of their limitations.

1. Claim 1 of the '673 patent

Claim 1 is the only independent claim of the '673 patent. It claims a medical valve for *controlling the flow of fluid* comprising a *flexible element* that: (1) *obstructs fluid flow* through the valve, (2) comprises a *wall flexing to accommodate axial compression* by a medical implement, (3) comprises an *end fitting against a ring shaped support*, and (4) is *tapered*. ICU asserts that Braun's Ultrasite valve satisfies each of these elements.

a. "Controlling the flow of fluid"

The Ultrasite valve plainly controls the flow of fluid from one medical implement to another. Braun's argument that its Ultrasite valve does not control fluid flow between two medical implements fails even under its own offered definition in which "control" means "to exercise restraint *or* direction over." Braun's Opposition Memorandum at 19 (quoting Random House Dictionary 442 (2d ed. 1983)) (emphasis added). Removing the implement inserted into the top of the Ultrasite valve restrains the flow of fluid as the piston moves toward its uncompressed position. Inserting a medical implement opens the valve, allowing fluid to flow between that implement and another implement connected to the other end of the valve. When the Ultrasite valve connects two medical implements, it

controls the flow of fluid by restraining the fluid within the valve and directing the flow from one implement to the other.

The term “control” should not be read so narrowly as to require the regulation of any “maximum” or “minimum” fluid flow. The preferred embodiments in the ‘673 patent work in a similar way (as does the Ultrasite valve) to control the flow of fluid between two medical implements: inserting a syringe or other medical implement opens the valve by exposing passageways that allow fluid to flow from one implement to the other. The ‘673 patent does not recite a medical valve that independently starts, shuts off, slows-down, or speeds-up the flow of fluids. To accept Braun’s argument would exclude the elected embodiments of the ‘673 prosecution, and produce a highly disfavored result for which Braun provides insufficient support. Globetrotter Software, Inc. v. Elan Computer Group, Inc., 362 F.3d 1367, 1381 (Fed. Cir. 2004) (vacating summary judgment of non-infringement where accused infringer’s claim interpretation would have excluded patent’s preferred embodiment; such an interpretation is “rarely, if ever, correct.”).

b. “Flexible element” that “obstructs fluid flow”

Braun’s Ultrasite valve also comprises a flexible element that obstructs fluid flow through the valve. In its claim construction, the Court construed the disputed claim language as follows. The term “flexible element” means “a portion of the valve that is capable of being bent, usually without breaking.” Markman Order at 7. ICU does not assert that the entire piston assembly (including the piston component, rigid plug, and spring) constitutes the flexible element. Rather, ICU contends that only the piston component, or piston, infringes the “flexible element” limitation of claim 1.² ICU’s Reply Memorandum at 4-5.

The piston is clearly a flexible element under the claim language. It is made in a single molding of an elastomeric material, which allows it to flex or bend without

² For the purposes of this Order, the term “piston” refers to the piston component as opposed to the entire piston assembly.

1 breaking. The piston bends at several points during operation of the valve. In the
 2 uncompressed position, the lip of the piston flexes in response to radial pressure as it is
 3 squeezed into the neck of the housing. The shoulder of the piston flexes when it is
 4 pressed against the housing shoulder. The neck of the piston also flexes during insertion
 5 of the rigid plug and spring at assembly. The piston skirt flexes in response to axial
 6 pressure when it is moved into a compressed position by a medical implement.

7 Braun contends that the elastomeric piston is not “flexible” inside the valve
 8 because the rigid plug inserted into the neck of the piston is not flexible. The Court’s
 9 construction, however, does not require that the flexible element must be bent, only that it
 10 is *capable* of being bent. Insertion of the rigid plug does not change the fact that the
 11 piston is still capable of being bent in response to pressure (e.g., radially from the rigid
 12 plug or housing wall, and axially from the medical implement), which is all the claim
 13 requires. Indeed, insertion of the rigid plug causes the piston neck to flex in response to
 14 radial pressure, and insertion of a medical implement causes the piston skirt to flex in
 15 response to axial pressure when it is moved into a compressed position.

16 Braun further contends that ICU’s position is inconsistent with its earlier claim that
 17 the Ultrasite valve satisfies a “rigid sealing element” limitation in U.S. Patent No.
 18 6,245,048 (the ‘048 patent). Claim 1 of the ‘048 patent recites “a rigid sealing
 19 element . . . movable between a first position in which said seal prevents fluid flow and a
 20 second position in which fluid flow is permitted” Braun’s argument fails because
 21 ICU is not contending that the same features of the valve are both a “rigid sealing
 22 element” and a “flexible element.” Rather, ICU refers to the stiffened lip and neck
 23 portion of the combined piston assembly as the “rigid sealing element,” but only the
 24 piston component as the “flexible element.” Although the Ultrasite piston assembly as a
 25 whole is rigid, the piston component remains flexible. It does not follow that a stiffened
 26 piston assembly cannot comprise a “flexible” piston which is capable of bending in
 27 response to pressure.

1 The piston also obstructs fluid flow through the valve. In an uncompressed
 2 position, the lip of the piston bears against the housing wall and the rigid plug to create a
 3 seal that obstructs fluid from entering the valve. The piston shoulder also bears against
 4 the internal housing wall and prevents fluid from flowing through the valve. Insertion of
 5 a medical implement pushes down on the rigid plug, which moves the piston from an
 6 uncompressed position to a compressed position in which fluid is allowed to flow through
 7 passageways in the valve.

8 Braun's argument that the rigid plug, not the piston, obstructs fluid flow through
 9 the valve is not supported by the evidence. In the Ultrasite valve, the fluid path is around
 10 the outside of the piston assembly, not through it. Even without the rigid plug, the piston
 11 bears against the housing wall near the valve opening and at the piston shoulder, blocking
 12 the passageways that allow fluid to flow through the valve. Although the piston
 13 component is hollow, a fluid barrier exists at the base where the piston is compressed
 14 between the luer nut and the housing wall. So even without a rigid plug, the piston
 15 obstructs fluid flow.

16 Moreover, Braun's contention that the piston or flexible element alone must
 17 obstruct fluid flow through the Ultrasite valve is not what the claim requires. Claim 1 is a
 18 "comprising" claim for "a medical valve . . . comprising . . . a flexible element . . . [that]
 19 obstructs fluid flow . . ." A claim that incorporates the term "comprising" is "generally
 20 understood to signify that the claims do not exclude the presence in the accused
 21 apparatus . . . of factors in addition to those explicitly recited." Vivid Techs., Inc. v. Am.
 22 Sci. & Eng'g, Inc., 200 F.3d 795, 811-12 (Fed. Cir. 1999) (reversing summary judgment
 23 of non-infringement where accused device included features in addition to elements
 24 claimed in a "comprising" claim); see also Stiftung v. Renishaw PLC, 945 F.2d 1173,
 25 1178 (Fed. Cir. 1991) (a claim "which uses the term 'comprising,' is an 'open' claim
 26 which will read on devices which add additional elements"). "The signal 'comprising'
 27 implements the general rule that absent some special circumstance or estoppel which
 28 excludes the additional factor, infringement is not avoided by the presence of

1 elements . . . in addition to those specifically recited in the claim.” Vivid Techs., 200
 2 F.3d at 811.

3 Here, Braun cannot escape infringement by pointing to other elements in the
 4 Ultrasite valve such as the rigid plug that also obstruct fluid flow. There are no special
 5 circumstances and Braun has not pointed to anything in the ‘673 prosecution history that
 6 would allow it to evade the general rule that an accused infringer cannot escape
 7 infringement by pointing to elements in his device that are in addition to those elements in
 8 the claimed invention. See id. Braun’s Ultrasite valve infringes despite the fact that the
 9 piston component is not the only element obstructing fluid flow through the valve.

10 **c. “A wall flexing to accommodate axial compression”**

11 The Ultrasite valve also comprises a wall that flexes to accommodate axial
 12 compression. The claim recites “a flexible element . . . comprising a wall . . . flexing to
 13 accommodate axial compression.” Braun’s argument that there can be only one wall that
 14 flexes (its entirety) in the flexible element in response to axial compression is not what
 15 the claim requires. The claim describes a flexible element that comprises or includes “a
 16 wall” that flexes in response to axial compression, but may also include other parts that
 17 do not flex in response to axial pressure.³ The claim should not be read to require that the
 18 entire piston must flex to accommodate axial compression. See Specialty Composites v.
 19 Cabot Corp., 845 F.2d 981, 987 (Fed. Cir. 1988) (“Where a specification does not *require*
 20 a limitation, that limitation should not be read from the specification into the claims.”).

21 Here, the piston component is the flexible element. Inserting a syringe or other
 22 medical implement moves the piston into a compressed position and causes the piston
 23 skirt to flex in response to axial pressure. Accordingly, the piston skirt is *a wall* that
 24 flexes to accommodate axial compression of the piston, and satisfies the claim limitation.

25
 26 ³ As ICU correctly notes, the use of the indefinite article “a” in an open-ended,
 27 “comprising” claim does not limit that claim to the singular. KJC Corp. v. Kinetic
28 Concepts, Inc., 223 F.3d 1351, 1356 (Fed. Cir. 2000) (“This court has repeatedly
 emphasized that an indefinite article ‘a’ or ‘an’ in patent parlance carries the meaning of
 ‘one or more’ in open-ended claims containing the transitional phrase ‘comprising.’”).

1 **d. “An end fitting against a ring shaped support”**

2 Claim 1 of the ‘673 patent also requires that the flexible element has an “end
3 fitting against a ring shaped support.” In its claim construction, the Court found the term
4 “ring shaped support” to be unambiguous. Markman Order at 11. In the Ultrasite valve,
5 the piston component sits on top of the Luer nut, which makes up the bottom part of the
6 body of the housing. Braun contends that the Luer nut presents nothing more than “a flat
7 surface on which the piston assembly sits” and cannot constitute a “ring shaped support.”
8 Braun’s Opposition Memorandum at 20. The top surface of the Luer nut, however, is not
9 flat. The “annular sealing ring” on the face of the Luer nut includes a concentric series of
10 ring-shaped ridges. The piston plainly fits against a ring-shaped support, which helps to
11 secure the piston in the housing body, and satisfies the claim limitation.

12 **e. “At least a portion . . . of the wall . . . being tapered”**

13 The final limitation of claim 1 requires that a portion of the wall of the flexible
14 element be “tapered” between the second and third diameters. The parties agree that
15 “tapered” means “to make gradually diminished in width toward one end.” Braun’s
16 Opposition Memorandum at 21. ICU asserts that the skirt of the piston component in the
17 Ultrasite valve satisfies this limitation.

18 Braun does not refute the assertion that its unmodified Ultrasite valve meets the
19 “taper” limitation. Indeed, the valve contains a slight taper along the skirt of the piston
20 component. Braun states that the taper is a draft mold, or a well-known non-functional
21 by-product of the manufacturing process. Nevertheless, the piston skirt gradually
22 diminishes in width towards one end of the Ultrasite valve structure as the claim requires.

23 Braun contends, however, that to the extent a slight mold draft on the unmodified
24 valve could be considered a taper, Braun has now removed it from the Ultrasite product.
25 The piston component of the newly modified valve is no longer tapered. Instead, the
26 piston skirt consists of straight walls. The question of whether the new, modified
27 Ultrasite valve infringes the ‘673 patent is considered further below.

1 As to the unmodified Ultrasite valve, Braun has failed to raise any material issue
2 of fact to rebut ICU's showing that it contains each limitation of claim 1 of the '673
3 patent. Consequently, the Court finds that the accused unmodified Ultrasite valve
4 literally infringes claim 1 of the '673 patent.

5 **2. Claim 2 of the '673 patent**

6 Claim 2 of the '673 patent incorporates all the limitations in claim 1 and adds that
7 an end of the flexible element in its uncompressed position near the opening must be
8 "substantially flat." The lip of the Ultrasite valve's piston component is substantially flat.
9 Braun contends, however, that "the end of the piston that is closest to the opening is
10 substantially open, not flat." Braun's Opposition Memorandum at 23. But claim 2 does
11 not require the end of the piston component to be both flat and disc-shaped as opposed to
12 ring-shaped. Therefore, the Court finds that the accused unmodified Ultrasite valve
13 literally infringes claim 2 of the '673 patent.

14 **3. Claim 3 of the '673 patent**

15 Claim 3 of the '673 patent incorporates all the limitations in claim 1 and adds that
16 an end of the flexible element in its uncompressed position must be "substantially flush
17 with the opening of said cavity of said body." ICU contends that "substantially" is a
18 modifier implying "approximately" rather than "perfect." ICU's Reply Memorandum at
19 12; see also Liquid Dynamics Corp. v. Vaughan Co., 355 F.3d 1361, 1368-69 (Fed. Cir.
20 2004) (noting that the term "substantial" is a modifier implying "approximate," rather
21 than "perfect"). But the Ultrasite valve's piston component is not even "approximately"
22 flush with valve opening. Instead, it is recessed in the cavity of the valve near the
23 opening. The lip of the piston component sits beneath the rigid plug, which in turn sits
24 below the top surface of the valve opening. Therefore, the Court finds that the Ultrasite
25 valve does not literally infringe claim 3 of the '673 patent.

26 **4. Claim 5 of the '673 patent**

27 Claim 5 of the '673 patent incorporates all the limitations in claim 1 and adds that
28 the flexible element must comprise "a single molding." The parties agree that "comprises"

1 a single molding” means “formed from a single mold.” Markman Order at 13. The
2 Ultrasite piston component is molded as a single piece, which satisfies the claim
3 limitation. Therefore, the Court finds that the Ultrasite valve literally infringes claim 5 of
4 the ‘673 patent.

5. **Claim 6 of the ‘673 patent**

6 Claim 6 of the ‘673 patent incorporates all the limitations in claim 1 and adds that
7 the valve must further comprise of “a rigid member positioned within the flexible element
8 and to assist in maintaining the flexible element along an axial centerline when the
9 flexible element moves between the uncompressed position and the compressed position.”
10 The rigid plug in the Ultrasite valve satisfies this claim limitation. The rigid plug is made
11 of a hard plastic, sits within the piston component, and prevents the piston assembly from
12 bending when it is axially compressed. Braun contends that ICU undermines its
13 infringement arguments regarding claim 1 because the piston component cannot be a
14 “flexible element” if the rigid plug satisfies the “rigid member” limitation. This argument
15 has already been rejected by the Court in its discussion of infringement of claim 1.
16 Therefore, the Court finds that the unmodified Ultrasite valve literally infringes claim 6 of
17 the ‘673 patent.

18 **III. INFRINGEMENT OF THE ‘673 AND ‘204 PATENTS BY THE
19 ULTRASITE VALVE WITH MODIFIED PISTON**

20 The ‘673 patent requires, among other things, a medical valve comprising a
21 “flexible element” having at least three “external diameters,” with “at least a portion of
22 the outer surface of the wall of the flexible element between the second diameter and the
23 third diameter being tapered.” Similarly, the ‘204 patent requires a “resilient seal
24 element” having “at least two generally arcuate segments” with “at least one segment
25 proximate to said bottom end having a larger maximum diameter than a second segment
26 nearer to said top end of said element.” The claim limitation requiring different-sized
27 maximum diameters was added during prosecution of the ‘204 patent, and ICU has
28 asserted that this created a “taper” limitation.

1 Braun does not refute the assertion that its unmodified Ultrasite valve contains a
2 slight taper in the skirt of the piston component. Instead, it contends that the newly
3 modified Ultrasite piston is straight-walled and cannot satisfy the “taper” limitation. In
4 September and October of 2004, Braun modified the molds used to make the piston
5 component to eliminate any mold draft. As a result, the modified piston component used
6 in Ultrasite valves being manufactured today has straight walls. Braun has removed the
7 alleged “taper” from the Ultrasite product, and now moves for summary judgment that the
8 Ultrasite valve with modified piston does not infringe claims 1-6 of the ‘673 patent and
9 claims 1-5 of the ‘204 patent.

10 **A. Subject Matter Jurisdiction**

11 Contrary to ICU’s assertions, the Court has jurisdiction to decide Braun’s summary
12 judgment motion of non-infringement of the ‘673 and ‘204 patents by the Ultrasite valve
13 with modified piston.

14 Under the Declaratory Judgment Act, a federal court may exercise jurisdiction over
15 a matter only in “a case of actual controversy.” 28 U.S.C. § 2201(a). The courts are
16 forbidden from rendering advisory opinions. Arrowhead Indus. Water, Inc. v.
17 Ecolochem, Inc., 846 F.2d 731, 735 (Fed. Cir. 1988). The test for determining whether
18 an “actual controversy” exists involving patents is objective and two-pronged. First, an
19 alleged infringer must have a reasonable apprehension that the patent holder will initiate
20 suit if the party continues the allegedly infringing activity. Second, the alleged infringer
21 must have either produced the device or have prepared to produce that device. Id. at
22 735-36.

23 Although subject matter jurisdiction is decided at the time of filing, once it has
24 been established, a court may adjudicate all those claims and related defenses brought by
25 the parties throughout the litigation as long as an “actual controversy” continues to exist.
26 See Preiser v. Newkirk, 422 U.S. 395, 401 (1975) (“The rule in federal cases is that an
27 actual controversy must be extant at all stages of review, not merely at the time the
28 complaint was filed”). For this reason, plaintiffs do not need to file a new action on the

1 same patent for each modification made to an accused product during the course of
 2 litigation. Notably, the modified Ultrasite valve is not a new valve but a modification to
 3 one component of the same valve.

4 The Court has jurisdiction over the newly modified Braun Ultrasite valve. In its
 5 Complaint, ICU generically alleges that Braun is infringing the ‘673 and ‘204 patents “by
 6 making, using, offering for sale, and selling within the United States Braun’s *Ultrasite*
 7 *needleless medical connectors.*” First Amended Complaint at ¶ 7 (emphasis added). The
 8 newly-modified Ultrasite valve is essentially the same product ICU has accused of
 9 infringement in its Complaint, except the elastomeric piston component no longer has the
 10 non-functional mold draft that ICU alleges satisfies the “taper” limitation. In addition,
 11 ICU identifies in its Infringement Disclosures Braun’s Ultrasite valve product family as
 12 “accused instrumentalities,” including any future ones it may find in discovery: “ICU
 13 anticipates identifying additional infringing B.Braun Ultrasite Needle-Free Valve
 14 products after conducting discovery in this matter.”⁴ ICU’s 3/31/04 Amended Initial
 15 Disclosure of Asserted Claims Under Patent L.R. 3-1.

16 Moreover, jurisdiction exists under Braun’s declaratory counterclaim that its
 17 generic “Ultrasite needleless medical connectors” do not infringe the ‘673 patent.
 18 Braun’s 3/5/04 Answer and Counterclaims at 12. An actual controversy existed at the
 19 time of filing because the parties were already in litigation over the Ultrasite valve
 20 product family, and Braun was making and selling the accused devices. See Cardinal
21 Chem. Co. v. Morton Int’l, Inc., 508 U.S. 83, 96 (1993) (“If . . . a party has actually been
 22 charged with infringement of the patent, there is, *necessarily*, a case or controversy
 23 adequate to support jurisdiction of a complaint, or a counterclaim under the Act.”).
 24 Braun’s decision to modify the molds used to manufacture the piston component and

25
 26 ⁴ Further, ICU seeks damages on sales during the litigation and an injunction
 27 against future sales. These remedies cannot be decided without first determining whether
 28 the Ultrasite valves with modified piston infringe the ‘673 and ‘204 patents, because
 Braun does not make any more Ultrasite valves with unmodified pistons for sale in the
 United States.

remove the alleged “taper” in the piston skirt did not divest the court of its jurisdiction over Ultrasite needleless medical connectors.

Jurisdiction over the newly modified Ultrasite valve also exists because Braun had a reasonable apprehension that ICU would initiate suit because it was already litigating the action and ICU had not stipulated to non-infringement by the Ultrasite valve with modified piston. The evidence also shows that all the molds used to make pistons for Ultrasite products for sale in the United States were changed by October 2004, and valves with modified pistons were being commercially sold and used by customers. Even if Braun had only switched the molds but was not yet selling the modified valve to customers, an actual controversy still exists because Braun had prepared to produce the Ultrasite valve with modified piston. See Int'l Med. Prosthetics Research Assocs., Inc. v. Gore Enter. Holdings, Inc., 787 F.2d 572, 575 (Fed. Cir. 1986) (“[T]he statutory requirement is satisfied when . . . the plaintiff has ‘actually produced the accused device’ or has ‘prepared to produce such a device.’”)) (emphasis added).

It is not necessary for ICU to make any allegations regarding the redesigned product in order for the Court to have jurisdiction over the Ultrasite valve with modified piston. Jurisdiction existed when ICU filed the infringement action against generic Ultrasite valves, and continues to the present day. There is no heightened pleading standard for identifying specific modifications for accused products in infringement actions. See Fed. R. Civ. P. 9 (specifying the claims and defenses that require pleading with particularity).

ICU’s reliance on Laitram Corp. v. Cambridge Wire Cloth Co., 919 F.2d 1579 (Fed. Cir. 1990), is misplaced. Although the court in Laitram vacated summary judgment of non-infringement for lack of jurisdiction because the motion addressed products never accused of infringement, the facts are distinguishable from this case. There, the Federal Circuit was concerned with the *complete absence* of an accused product. Laitram, 919 F.2d at 1580 (“[T]he present record contains no evidence that any product accused of infringement had been made, used, or sold when the complaint was filed.”). The only

1 products before the district court when it granted summary judgment were the
2 non-accused “possible constructions” of the product. Id. at 1581. Consequently, the
3 Federal Circuit held that there was no true case or controversy. Id. (“In its motion,
4 [plaintiff] was effectively and improperly saying to the district court, ‘if we make and sell
5 any of these four “possible constructions” please advise that we won’t infringe.’ Federal
6 Courts do not sit, however, to decide hypotheticals or to issue advisory opinions.”). In
7 contrast, the accused Braun Ultrasite valves with modified piston are being made, used,
8 and sold. Moreover, the Ultrasite valve with modified piston was not merely a “possible
9 construction” of the product. By the end of 2004, Braun had modified the molds used to
10 produce the piston component for all the Ultrasite valves manufactured and sold in the
11 United States.

12 ICU also relies on Field Container Co., L.P. v. Somerville Packaging Corp., 842 F.
13 Supp. 338 (N.D. Ill. 1994). The facts in Field Container are also inapposite to this case.
14 There, the court found that the plaintiff in a declaratory judgment action failed to satisfy
15 the burden of demonstrating an actual controversy. Id. at 342-43. A letter threatening
16 legal action sent to the plaintiff could not establish a reasonable apprehension of suit
17 because it referenced an older version of the product that was “significantly different”
18 from the version then being produced by the plaintiff. Id. at 342 (“We are therefore
19 unwilling to apply the transitive property and convert any ‘reasonable apprehension of
20 suit’ with respect to Version 1 to a ‘reasonable apprehension of suit’ with respect to
21 Version 2.”). Consequently, the court had no jurisdiction over the product at issue. In
22 contrast, the difference between Braun’s two Ultrasite valves is not substantial enough to
23 bar a reasonable apprehension of suit with respect to the modified Ultrasite valve when
24 ICU initiated its litigation against Braun’s unmodified valve. Indeed, the two versions of
25 the valve are almost identical. The mold draft on the piston component was a by-product
26 of the manufacturing process, not a functional attribute of the product. Its removal did
27 not alter the function or operation of the valve. Thus, it was reasonable for Braun to fear
28 being sued for infringement if it manufactured the modified valve, particularly in light of

1 ICU's refusal to stipulate to non-infringement by the Ultrasite valve with modified piston.
2 Braun satisfied its burden to demonstrate that an actual controversy exists, and the Court
3 has jurisdiction to consider whether the Ultrasite valve with modified piston infringes the
4 '673 and '204 patents.

5 **B. Non-Infringement**

6 The Court now turns to the merits of Braun's summary judgment motion with
7 respect to the Ultrasite valve with modified piston. Both the '673 and '204 patents recite
8 a medical valve containing a tapered structure. The parties agree that "tapered" means
9 "to make gradually diminished in width toward one end." Braun's Opposition
10 Memorandum at 21.

11 ICU asserts that the skirt of the piston component in Braun's Ultrasite valve
12 satisfies this limitation. As to the Ultrasite valve with modified piston, Braun has now
13 removed the alleged "taper" from the product. The piston skirt no longer gradually
14 diminishes in width towards one end. Design drawings of the modified piston component
15 show that the piston is no longer tapered. The piston skirt now consists of straight walls.
16 Notably, even ICU does not contend that the modified Ultrasite product infringes (either
17 literally or by virtue of the doctrine of equivalents) the '673 and '204 patents.

18 Thus, there is no genuine dispute that the modified Ultrasite valve does not
19 infringe the '673 and '204 patents, and the Court grants Braun's motion for summary
20 judgment of non-infringement by the Ultrasite valve with modified piston.

21 **IV. INEQUITABLE CONDUCT**

22 Braun has alleged in its pleadings that ICU's '673 patent is unenforceable because
23 of the inequitable conduct of ICU during the prosecution of the '673 patent before the
24 Patent and Trademark Office ("PTO").

25 Specifically, Braun argues that ICU committed inequitable conduct by failing to
26 disclose the existence of this ongoing litigation and relevant litigation materials regarding
27 infringement by the Ultrasite valve to the '673 patent examiner, while simultaneously
28

1 prosecuting a new patent application with a petition alleging infringement by the same
2 Ultrasite valve.

3 The ‘673 patent application was filed as a continuation of an abandoned
4 application originally filed in December 1991. The inventor, Dr. George Lopez,⁵
5 successfully petitioned for an expedited examination of the application based on the
6 alleged infringement of the new invention by Braun’s Ultrasite valve. The petition did
7 not disclose that the assignee of the ‘673 patent, ICU, had already been in litigation with
8 Braun over the same Ultrasite valve for over a year. It also failed to inform the PTO that
9 ICU alleged in the ongoing litigation that the same Ultrasite valve infringed the ‘204
10 patent—a patent that shares the same specification as the ‘673 patent.

11 ICU, however, contends that there is no evidence of inequitable conduct on its part
12 as to the prosecution of the ‘673 patent. ICU points out that the PTO was notified by the
13 Clerk of the United States District Court for the Northern District of California as to the
14 pending litigation involving the ‘048 and ‘673 patents pursuant to 35 U.S.C. § 290.
15 Moreover, ICU disclosed all relevant prior art, including every prior art patent raised
16 during the course of litigation,⁶ to the PTO during the ‘673 prosecution in accordance
17 with the applicable regulations. ICU argues that there is no evidence of any intent on its
18 part to deceive or mislead the PTO.

19 The Court finds that the existence of this ongoing litigation was material to the
20 ‘673 patent prosecution, and that ICU failed to disclose this information to the ‘673 patent
21 examiner. There is also sufficient evidence to raise a genuine issue of triable fact as to
22 whether ICU failed to disclose this ongoing litigation with the intent to mislead or deceive

23
24 ⁵ Dr. Lopez is also the inventor of the ‘204 patent and the Chief Executive Officer
25 of plaintiff ICU Medical, Inc.

26 ⁶ The list of relevant prior art references raised during the course of litigation and
27 disclosed by ICU to the PTO include: Armao (U.S. Patent No. 3,134,380), Adams (U.S.
28 Patent No. 2,847,995), Vailancourt (U.S. Patent No. 4,512,766), DeFrank (U.S. Patent
No. 5,242,432), Cambio (U.S. Patent No. 4,201,208), and Lopez (U.S. Patent No.
4,782,841).

1 the PTO. Consequently, summary judgment in favor of ICU with respect to Braun's
2 affirmative defense of inequitable conduct as to the '673 patent is not appropriate.

3 **A. Applicable Law**

4 A patent applicant's duty to disclose material information to the PTO arises under
5 the general duty of candor, good faith, and honesty as set forth in 37 C.F.R. § 1.56(a),
6 which states, in part:

7 Each individual associated with the filing and prosecution of a patent application
8 has a duty of candor and good faith in dealing with the Office, which includes a
9 duty to disclose to the Office all information known to that individual to be
material to patentability as defined in this section.

10 37 C.F.R. § 1.56(a).

11 The Manual of Patent Examining Procedure ("MPEP") further provides:

12 Where the *subject matter* for which a patent is being sought is or has been
13 involved in litigation, *the existence of such litigation and any other material
14 information arising therefrom* must be brought to the attention of the Patent and
15 Trademark Office; such as, for example, evidence of possible prior public use or
sales, questions of inventorship, prior art, allegations of 'fraud,' 'inequitable
conduct,' or violation of duty of disclosure. Such information might arise during
litigation in, for example, pleadings, admissions, discovery including
interrogatories, deposition, and other documents, and testimony.

17 MPEP § 2001.06(c) (emphasis added). Although MPEP § 2001.6(c) is not binding law, it
18 sheds light on the PTO's official interpretation of 37 C.F.R. § 1.56(a) regarding the
19 materiality of related litigation.

20 A patentee commits inequitable conduct if, "during prosecution of the application,
21 he makes an affirmative representation of material fact, fails to disclose material
22 information, or submits false material information, and does so with intent to deceive."
23 Amgen, Inc. v. Hoechst Marion Roussel, Inc., 314 F.3d 1313, 1358 (Fed. Cir. 2003)
24 (citation omitted). To find inequitable conduct, there must be clear and convincing
25 evidence that both the materiality and intent prongs of the test are satisfied. See Bristol-
26 Myers Squibb Co. v. Rhone-Poulenc Rorer, Inc., 326 F.3d 1226, 1233 (Fed. Cir. 2003).

1 **1. Sufficiency of § 290 Notice**

2 ICU contends that the ongoing litigation relating to infringement by the Ultrasite
3 valve was properly disclosed and brought to the attention of the PTO when the Clerk gave
4 notice of this litigation pursuant to 35 U.S.C. § 290.⁷

5 The duties imposed by 37 C.F.R. § 1.56(a) and MPEP § 2001.06(c) cannot be
6 supplanted by the general administrative notice required by Section 290. The patent
7 applicant has an independent duty to disclose the existence of related patent infringement
8 litigation to the PTO examiner. The duty of disclosure is particularly important in the
9 context of patent prosecutions, which are conducted before an examiner in the absence of
10 any represented adversary. In *ex parte* patent prosecutions, PTO examiners rely on the
11 patent applicants to make full disclosure of material information of which they are aware
12 in each case. See Amgen, Inc. v. Hoechst Marion Roussel, Inc., 126 F. Supp. 2d 69, 147
13 (D. Mass. 2001) (“[T]he duty of candor ultimately falls on the shoulders of the patent
14 applicant . . .”). Moreover, the PTO has hundreds of examiners who handle hundreds of
15 thousands of applications annually, and one examiner is unlikely to be aware of the status
16 or assertions that an applicant makes to another examiner.

17 Here, for example, although the Section 290 notice was sent to the PTO Director
18 on the day the ongoing patent infringement action was filed, the PTO was directed under
19 Section 290 to file the notice in the ‘204 and ‘048 patent file histories. Any Section 290
20 notice would not go to the examiner of the subsequent ‘673 patent application—a
21 different, but related patent application. Indeed, the Section 290 notice appears nowhere
22 in the ‘673 file history. As a result, the ‘673 patent examiner was unaware of this Court’s

24 ⁷ 35 U.S.C. § 290 provides:

25 The clerks of the courts of the United States, within one month after the filing of
26 an action under this title shall give notice thereof in writing to the Director, setting
27 forth so far as known the names and addresses of the parties, name of the inventor,
28 and the designating number of the patent upon which the action has been
brought. . . . The Director shall, on receipt of such notices, enter the same in the
file of such patent.

1 claim constructions on similar language from the '204 and '048 patents. The '673 patent
 2 examiner was never told about Braun's invalidity contentions. The '673 patent examiner
 3 was never shown *any* of the pleadings or documents in this litigation. Consequently, ICU
 4 cannot rely on Section 290 to satisfy its duty to disclose the existence of related litigation
 5 to the '673 patent examiner.

6 In fact, the PTO advises that "the individuals covered by 37 C.F.R. 1.56 cannot
 7 assume that the examiner of a particular application is necessarily aware of other
 8 applications which are 'material to patentability' of the application in question, but must
 9 instead bring such other applications to the attention of the examiner." MPEP §
 10 2001.6(b).⁸ Likewise, an applicant cannot assume that an examiner, however diligent and
 11 well-informed, will be aware of Section 290 notices in other patents. To do so would
 12 effectively eviscerate the duty of disclosure regarding related litigation owed to each
 13 patent examiner.

14 2. Materiality

15 Information must be disclosed to the PTO when it is material to patentability.
 16 Materiality is not limited to prior art but includes "any information that a reasonable
 17 examiner would be substantially likely to consider important in deciding whether to allow
 18 an application to issue as a patent. Bristol-Myers, 326 F.3d at 1234. According to the
 19 PTO, information is material to patentability if:

20 It is not cumulative to information already of record [in the application], and
 21 (1) It establishes, by itself or in combination with other information, a *prima facie*
 22 case of unpatentability of a claim; or
 23 (2) It refutes, or is inconsistent with, a position the applicant [has taken] in:
 24 (i) Opposing an argument of unpatentability relied on by the [PTO], or
 25 (ii) Asserting an argument of patentability.

26 37 C.F.R. § 1.56(b).

27 ⁸ Furthermore, applicants should "continue to submit information for consideration
 28 by the Office in applications rather than making and relying on their own determinations
 of materiality. An incentive remains to submit the information to the Office because it
 will result in a strengthened patent and will avoid later questions of materiality and intent
 to deceive." Critikon, 120 F.3d at 1257.

1 In fact, related litigation is material *per se*. See MPEP § 2001.06(c) (stating that
2 “the existence of such litigation *and any other* material arising therefrom” is material);
3 see also Daimlerchrysler AG v. Fueling Advanced Techs., Inc., 276 F. Supp 2d 1054,
4 1063 (S.D. Cal. 2003). Failure to disclose related litigation may lead to a finding of
5 inequitable conduct. See Critikon, Inc. v. Becton Dickinson Vascular Access, Inc., 120
6 F.3d 1253, 1255-59 (Fed. Cir. 1997); Boehringer Ingelheim Vetmedica, Inc. v. Schering-
7 Plough Corp., 68 F. Supp. 2d 508, 550-51 (D.N.J. 1999) (denying patentee’s preliminary-
8 injunction motion because accused infringer had substantial defense of inequitable
9 conduct based on patentee’s failure to disclose materials from a related litigation to the
10 examiner).

11 The materiality of the ‘204 and ‘048 patent litigation which challenged both the
12 validity and enforceability of the subject matter of the ‘673 application is obvious. Indeed,
13 even ICU does not dispute that this ongoing litigation was material to the ‘673 patent
14 prosecution. ICU Brief at 5-6. The ‘204 patent shared the same specification and
15 disclosed the same subject matter as the ‘673 application. Braun also raised invalidity
16 contentions against the patents-in-suit and alleged inequitable conduct against ICU in
17 connection with its prosecution of the ‘048 patent, which may have been material to
18 patentability of the ‘673 application. See MPEP § 2001.6(c) (“Examples of []material
19 information include . . . allegations of ‘fraud,’ ‘inequitable conduct,’ and ‘violation of
20 duty of disclosure.’”).

21 **3. Intent**

22 As a general principle, the requirements of materiality and intent are inversely
23 proportional. See Critikon, 120 F.3d at 1257. “A lesser quantum of intent is necessary
24 when the omission or misrepresentation is highly material, and vice versa.”
25 Diamlerchrysler, 276 F. Supp. 2d at 1065 (quoting Amgen, 314 F.3d at 1358).
26 Nevertheless, the intent to deceive or mislead cannot be inferred solely from the
27 materiality of the omission. Amgen, 314 F.3d at 1358. Proof of intent to mislead may be
28 shown by circumstantial evidence. Paragon Podiatry Lab., Inc. v. KLM Lab., Inc., 984

1 F.2d 1182, 1189-90 (Fed. Cir. 1993) (“‘[S]moking gun’ evidence is not required in order
2 to establish an intent to deceive. . . . Rather, this element of inequitable conduct, must
3 generally be inferred from the facts and circumstances surrounding the applicant’s overall
4 conduct.”) (citation omitted).

5 A relatively high degree of intent may be demonstrated from the facts of this case.
6 ICU was clearly aware that the subject matter of the pending litigation was material to the
7 ‘673 patent prosecution. It knew that the claims of the ‘673 patent “read on” Braun’s
8 Ultrasite valve because it specifically alleged infringement by the Ultrasite valve in a
9 Petition to Make Special to expedite examination of the ‘673 patent. Braun suggests that
10 ICU’s effort to obtain the ‘673 patent in time for use in this litigation provided a
11 significant incentive for ICU to hide this litigation from the PTO examiner.⁹

12 During the prosecution of the ‘673 application, ICU also objected to Braun’s
13 motion to compel production of pending ICU patent applications that were related to the
14 ‘204 patent. ICU repeatedly told Magistrate Judge James that the applications were not
15 “relevant,” despite having already filed a Petition to Make Special alleging infringement
16 by the same Ultrasite valve. This made it impossible for Braun to inform the ‘673 patent
17 examiner of the pending litigation.

18 Put another way, ICU may have been trying to hide the pending litigation from the
19 ‘673 patent examiner while simultaneously using the alleged infringement by the Ultrasite
20
21

22
23 ⁹ Indeed, disclosing the ongoing litigation may have forced ICU to address their
24 various positions during litigation and consequently delayed the ‘673 patent prosecution
by raising relevant invalidity defenses and material prior art.

25 For example, the PTO examiner may have asked for more information regarding
26 ICU’s claim construction arguments that the ‘204 patent claims, which share the same
27 specification as the ‘673 application, required a “taper” on the “resilient seal element”
28 even if that term is never used. ICU relied on this “taper” limitation in opposing Braun’s
summary judgment motion for patent invalidity. Although the PTO examiner never had
the opportunity to consider this information, ICU subsequently added an express “taper”
limitation to the application claims of the ‘673 patent before it issued.

1 valve as a reason to expedite issuance of the ‘673 patent, which ICU could then use as a
2 weapon in the ongoing litigation.

3 ICU’s reliance on Haney v. Timesavers, Inc., 900 F. Supp. 1378, 1382 (D. Or.
4 1995) (stating that “the court cannot infer an intent to deceive . . . from the manner in
5 which the information was conveyed to the Patent Office when the information was, in
6 fact, conveyed.”) is misplaced. In Haney, the district court found insufficient evidence to
7 infer an intent to deceive and sustain an inequitable conduct claim. Id. Here, however,
8 there is substantial evidence from which the Court could find that ICU had the intent to
9 deceive the PTO regarding ongoing litigation surrounding the Ultrasite valve. ICU’s
10 failure to disclose the existence of this ongoing litigation regarding infringement by the
11 Ultrasite valve to the ‘673 patent examiner, as well as the existence of the ‘673
12 application during discovery, while simultaneously prosecuting a new patent application
13 with a petition alleging infringement by the same valve, raises a genuine issue of triable
14 fact as to inequitable conduct.

15 CONCLUSION

16 For the reasons stated above, the Court hereby resolves the motions as follows:

- 17 1. ICU’s motion for summary judgment that Braun’s Ultrasite valve infringes the
18 ‘673 patent is GRANTED in part as to claims 1-2 and 5-6, and DENIED in part as
19 to claim 3.
- 20 2. Braun’s motion for summary judgment that the Ultrasite valve does not infringe
21 the ‘673 patent is DENIED in part as to claims 1-2 and 4-6, and GRANTED in
22 part as to claim 3.
- 23 3. Braun’s motion for summary judgment that the Ultrasite valve with modified
24 piston does not infringe the ‘673 and ‘204 patents is GRANTED.
- 25 4. ICU’s motion for summary judgment of no inequitable conduct is DENIED.

26 / / /

27 / / /

28 / / /

1 It is further ORDERED that trial on the issue of inequitable conduct shall begin on
2 April 11, 2005 at 8:30 a.m. A pretrial conference shall be held on March 31, 2005 at 2:30
3 p.m.

4 **IT IS SO ORDERED.**

5
6 Dated: March 14, 2005

7

8 /s/
9 CHARLES R. BREYER
10 UNITED STATES DISTRICT JUDGE
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EXHIBIT G



LegalMetric District Judge Report

Central District of California

Patent Cases

January, 1991 to April, 2007

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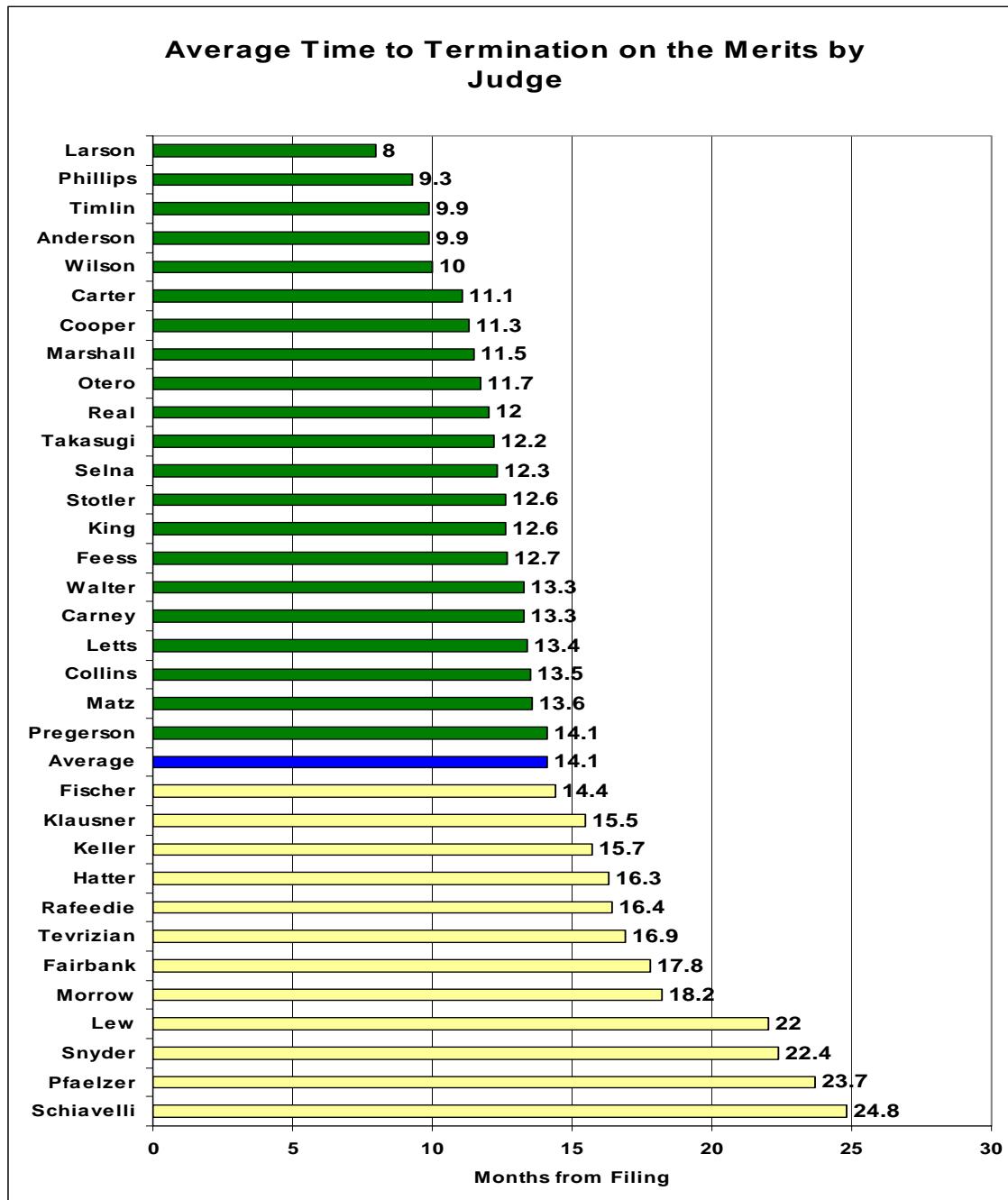
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Average Pendency for All Terminations on the Merits—By Active Judge

The average time from filing to termination on the merits in these cases was 14.1 months. There is considerable variation of average pendency by judge, ranging from 8.0 months for Judge Larson to 24.8 months for Judge Schiavelli. The chart below shows the variation for average time to termination on the merits by judge.



Average Pendency for Bench Trials—By Active Judge

The average time from filing to termination by bench trial was 42.4 months. For those judges who had at least one patent case with a bench trial during this period, the average time from filing until termination by bench trial varied from 11.8 months for Judge Stotler to 126.4 months for Judge Matz.

Judge	Number of Bench Trials	Average Time from Filing to Termination by Bench Trial (Months)
Average for the Court	0.3	42.4
Feeess	1	47.5
Hatter	1	30.6
Lew	2	30.6
Marshall	1	38.6
Matz	1	126.4
Pfaelzer	2	21.4
Real	1	65.5
Stotler	1	11.8

Average Pendency for Jury Trials—By Active Judge

The average time from filing to termination of patent cases by jury verdict in the Central District of California was 32.7 months. By judge, average time to termination for jury verdicts ranged from 14.4 months for Judge Keller to 91.4 months for Judge Schiavelli. The chart below illustrates the variation among judges.

Judge	Number of Jury Trials	Average Time from Filing to Termination by Jury Trial (Months)
Average for the Court	0.9	32.7
Carney	1	63.4
Carter	3	32.1
Collins	1	80.3
Keller	3	14.4
Klausner	2	28.6
Letts	1	19.8
Lew	1	43.1
Pfaelzer	3	40.6
Pregerson	2	33.3
Rafeedie	6	16.8
Real	1	27.5
Schiavelli	1	91.4
Snyder	1	41.6
Stotler	1	69.4
Tevrizian	1	21.3
Wilson	2	19.5

Average Pendency for Cases Terminated by Summary Judgment—By Active Judge

The average time from filing to termination by summary judgment in patent cases in the Central District of California was 19.9 months. By judge, average time to termination for summary judgments ranged from 11.5 months for Judge Collins to 38.6 months for Judge Hatter. The table below illustrates the variation among judges.

Judge	Number of Terminations by Summary Judgment	Average Time from Filing to Termination by Summary Judgment (Months)
Average for the Court	3.8	19.9
Carney	6	14.2
Carter	9	13.2
Collins	2	11.5
Cooper	3	16.3
Feess	3	13.8
Hatter	2	38.6
Keller	2	20.5
King	1	29.8
Klausner	4	17.2
Letts	2	34.0
Lew	7	29.4
Marshall	2	15.5
Matz	3	20.2
Morrow	1	23.6
Otero	5	16.3
Pfaelzer	12	28.5
Pregerson	4	15.9
Rafeedie	7	13.9
Real	12	15.7
Schiavelli	2	21.4
Selna	9	17.0
Snyder	5	23.5
Stotler	11	19.5
Tevrizian	7	29.3
Timlin	2	25.3
Walter	1	13.8
Wilson	9	17.8

EXHIBIT H



LegalMetric District Judge Report

District of Delaware

Patent Cases

February, 2006

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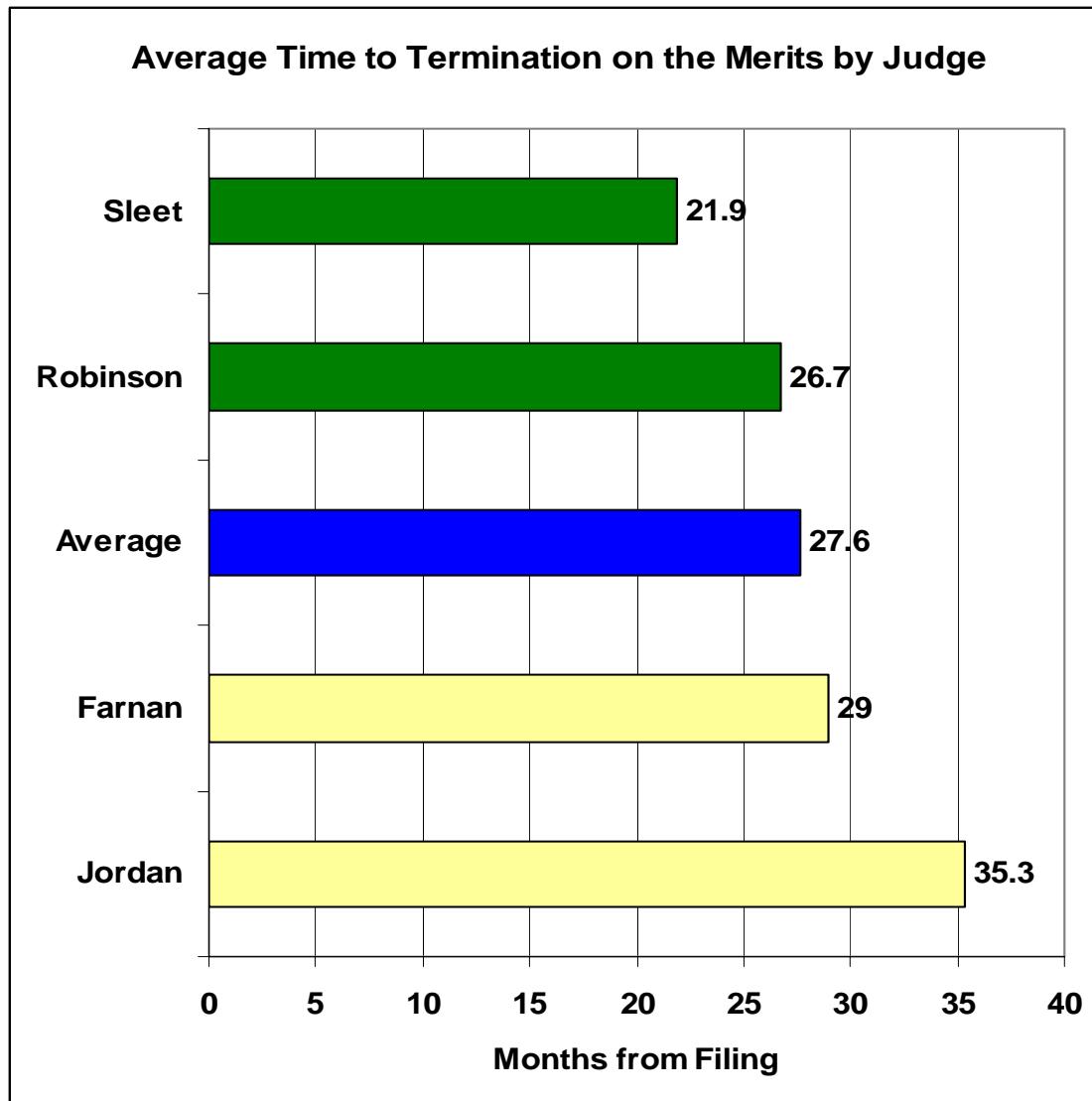
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Average Pendency for All Terminations on the Merits—By Judge

The average time from filing to termination on the merits in these cases was 27.6 months. There is considerable variation of average pendency by judge, ranging from 21.9 months for Judge Sleet to 35.3 months for Judge Jordan. The chart below shows the variation for average time to termination on the merits by judge.



Average Pendency for Bench Trials—By Judge

The average time from filing to termination by bench trial was 44.4 months. For those judges who had at least one patent case with a bench trial during this period, the average time from filing until termination by bench trial varied from 19.7 months for Judge Jordan to 52.7 months for Judge Farnan.

Judge	Number of Bench Trials	Average Time from Filing to Termination by Bench Trial (Months)
Average for the Court	7.8	44.4
Farnan	16	52.7
Jordan	2	19.7
Robinson	12	38.8
Sleet	1	29.0

Average Pendency for Jury Trials—By Judge

The average time from filing to termination of patent cases by jury verdict in the District of Delaware was 31.8 months. By judge, average time to termination for jury verdicts ranged from 23.3 months for Judge Sleet to 38.8 months for Judge Robinson. The chart below illustrates the variation among judges.

Judge	Number of Jury Trials	Average Time from Filing to Termination by Jury Trial (Months)
Average for the Court	11.2	31.8
Farnan	22	28.2
Jordan	3	37.6
Robinson	15	38.8
Sleet	5	23.3

Average Pendency for Cases Terminated by Summary Judgment—By Judge

The average time from filing to termination by summary judgment in patent cases in the District of Delaware was 31.0 months. By judge, average time to termination for summary judgments ranged from 25.3 months for Judge Robinson to 36.5 months for Judge Jordan. The table below illustrates the variation among judges.

Judge	Number of Terminations by Summary Judgment	Average Time from Filing to Termination by Summary Judgment (Months)
Average for the Court	6.0	31.0
Farnan	5	32.4
Jordan	6	36.5
Robinson	7	25.3
Sleet	6	30.9

Average Pendency for Cases Terminated by Transfer—By Judge

The average time from filing to termination by transfer in patent cases in the District of Delaware was 5.7 months. By judge, average time to termination for transfers ranged from 3.0 months for Judge Jordan to 9.4 months for Judge Robinson. The table below illustrates the variation among judges.

Judge	Cases Transferred	Average Time from Filing to Transfer (Months)
Average for the Court	15.0	5.7
Farnan	17	7.3
Jordan	7	3.0
Robinson	23	9.4
Sleet	22	4.8